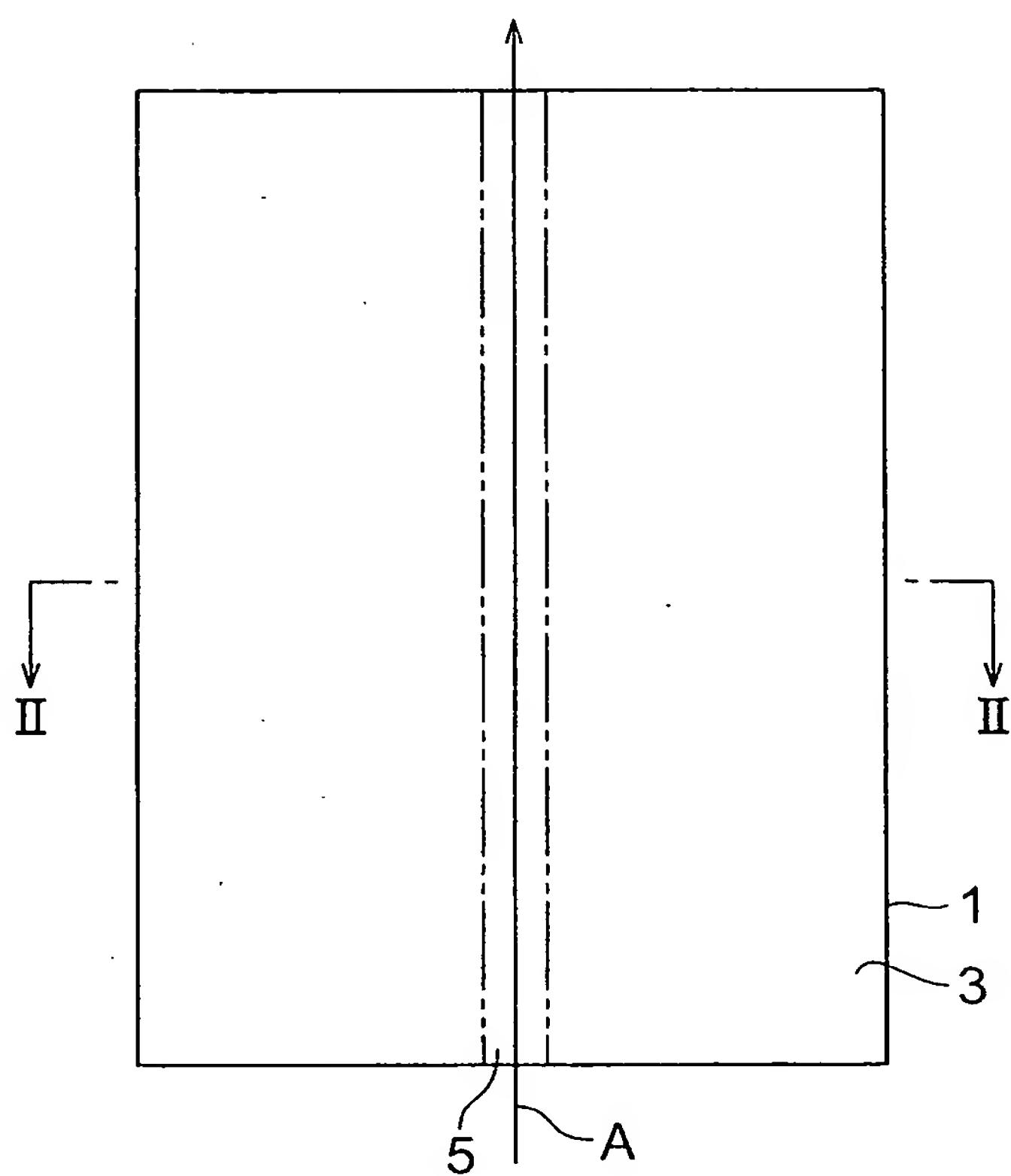
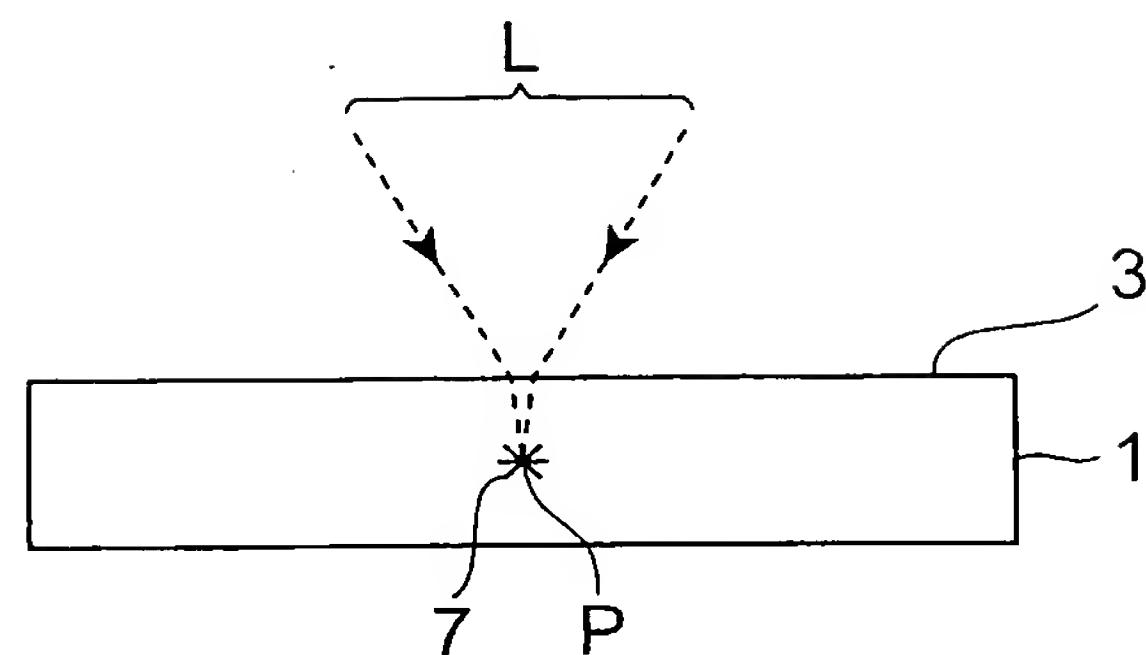


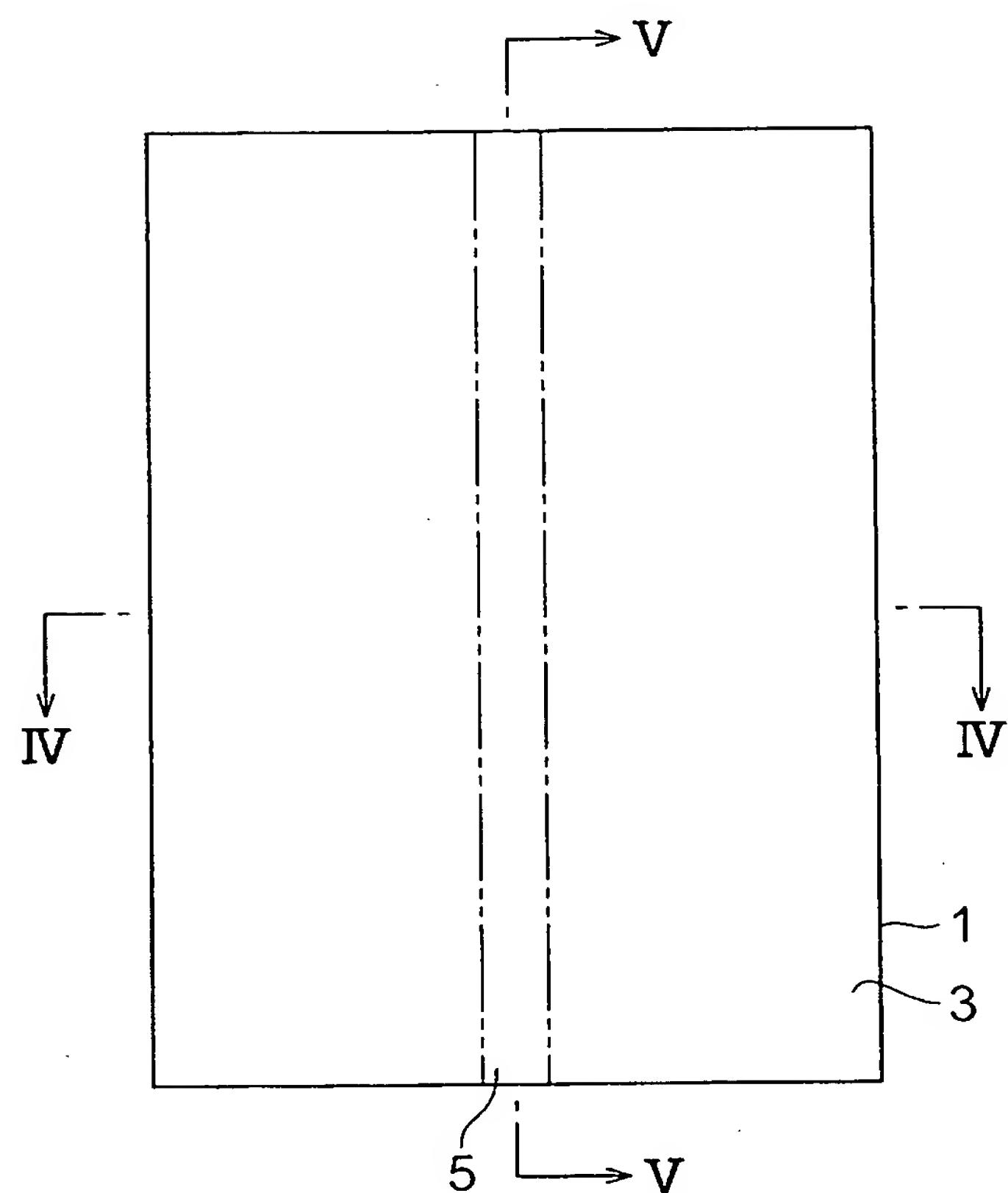
*Fig. 1*



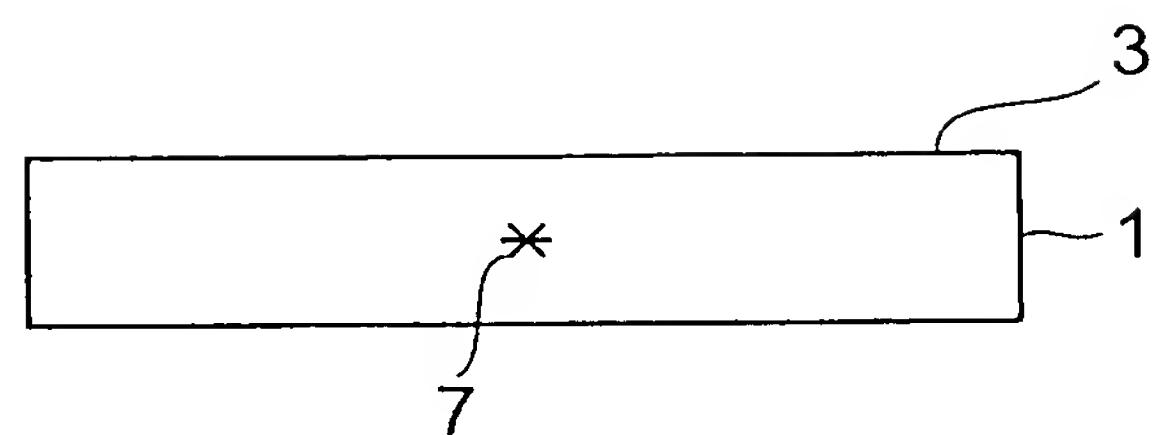
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***Fig.2***

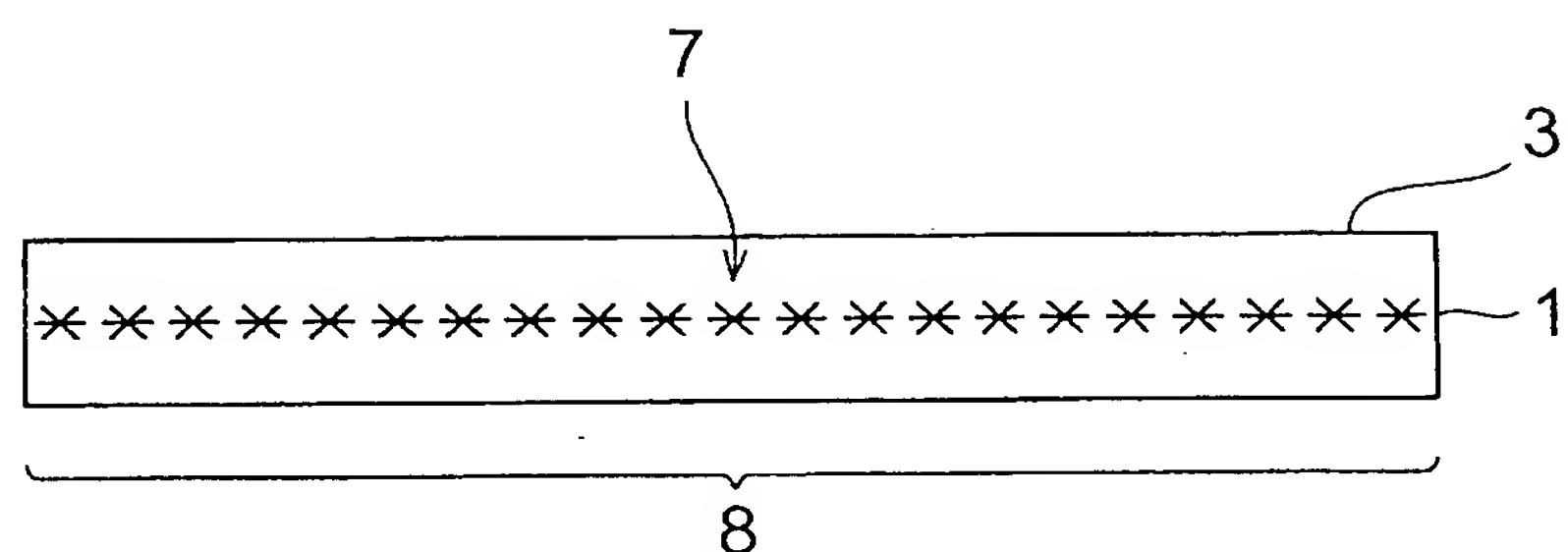


***Fig.3***

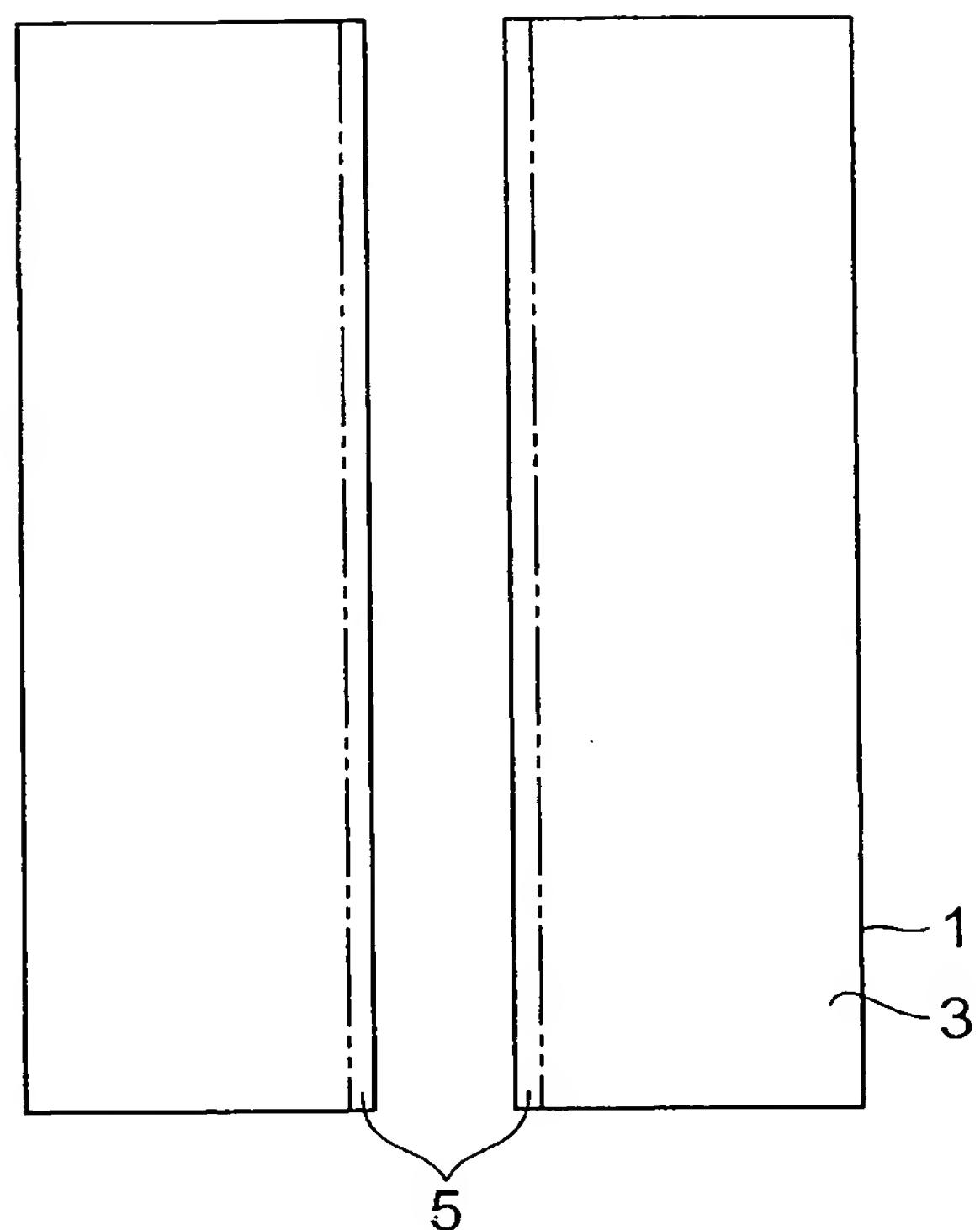
***Fig.4***

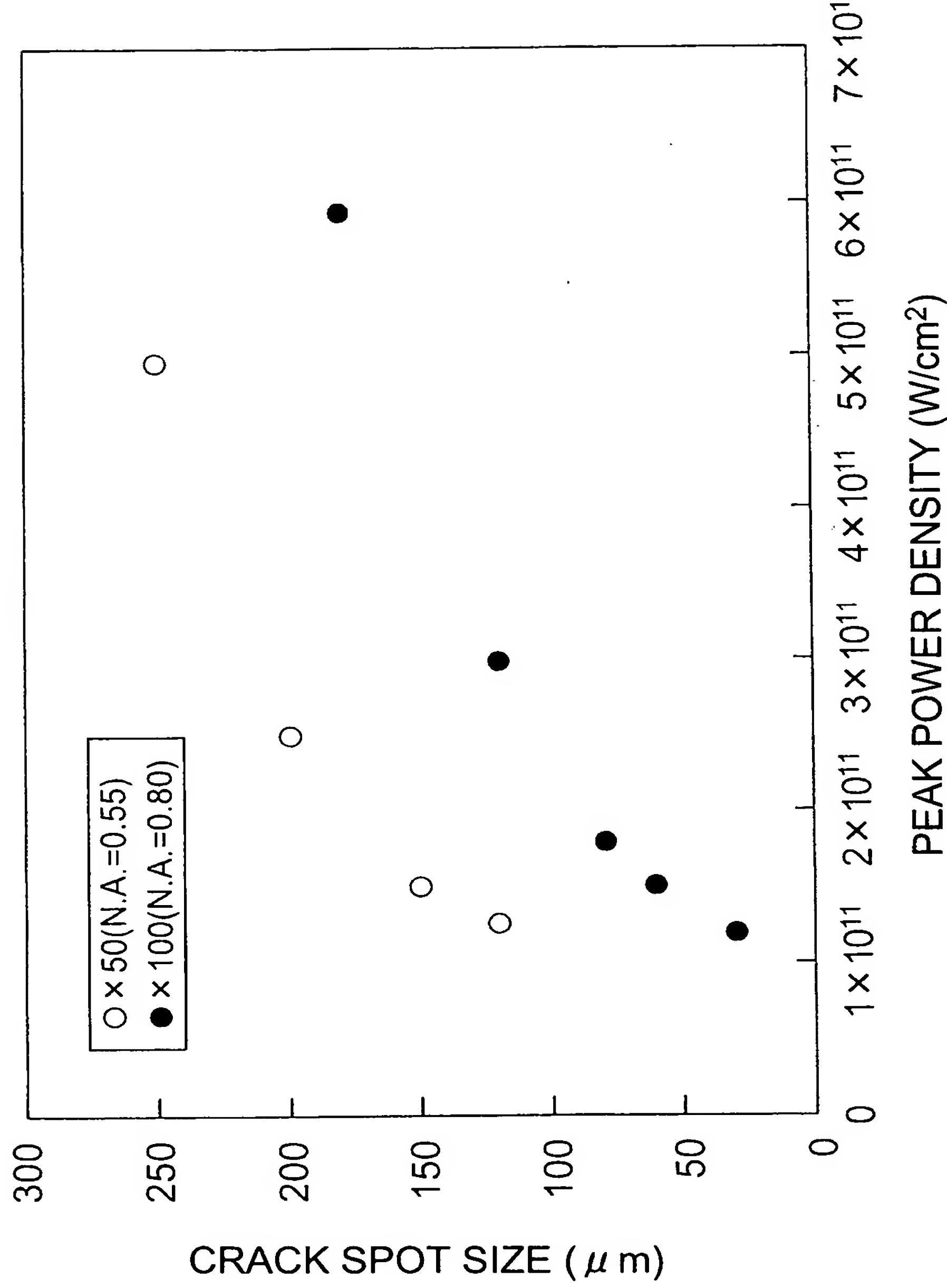


***Fig.5***



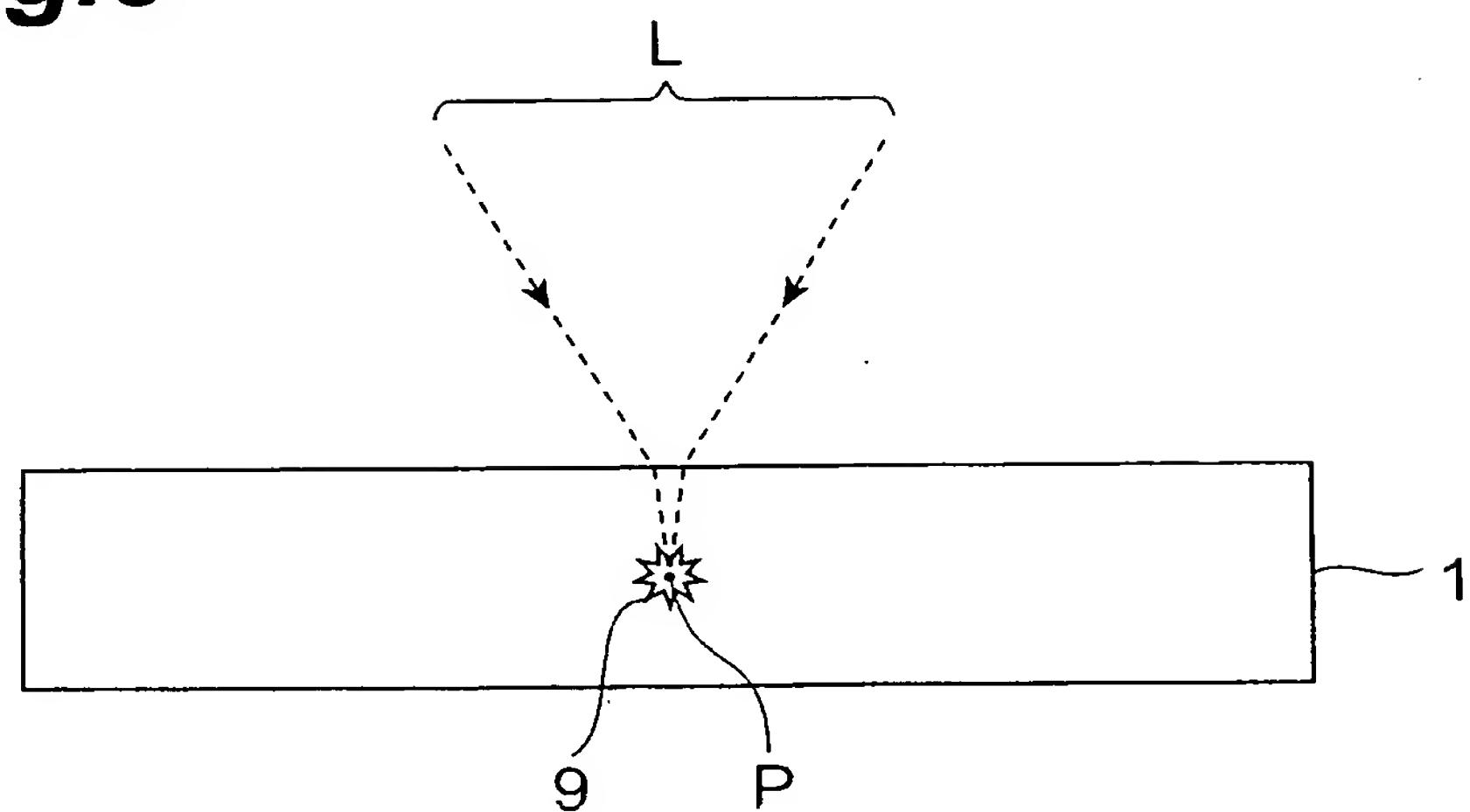
***Fig. 6***



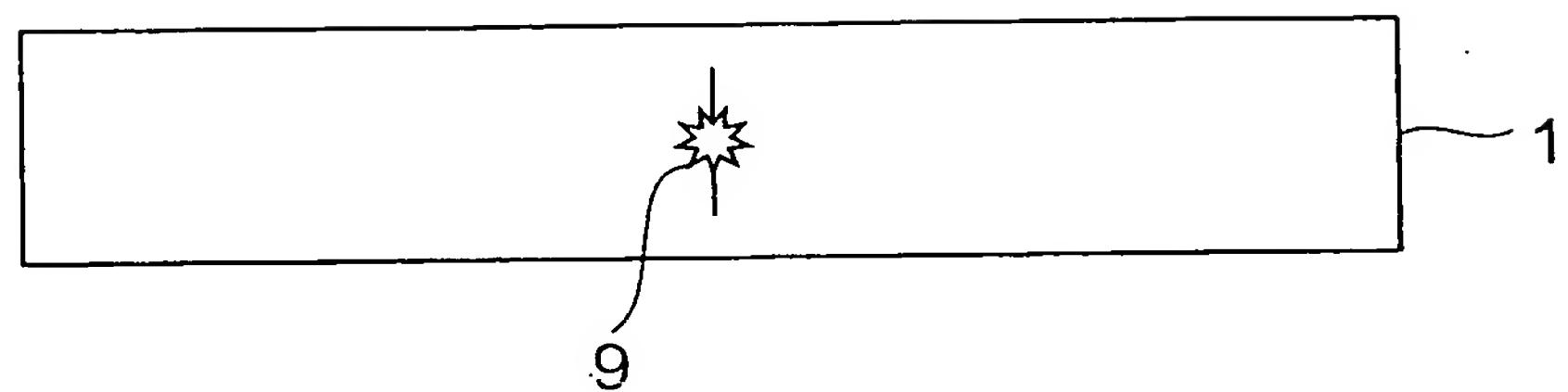


**Fig.7**

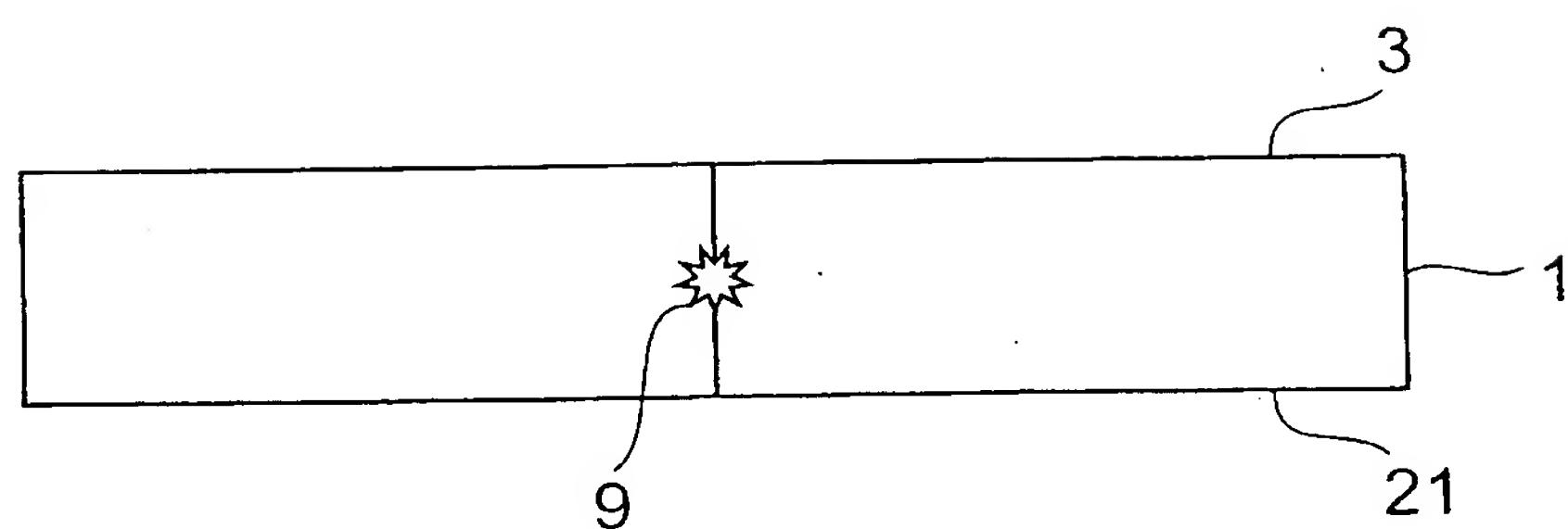
***Fig.8***



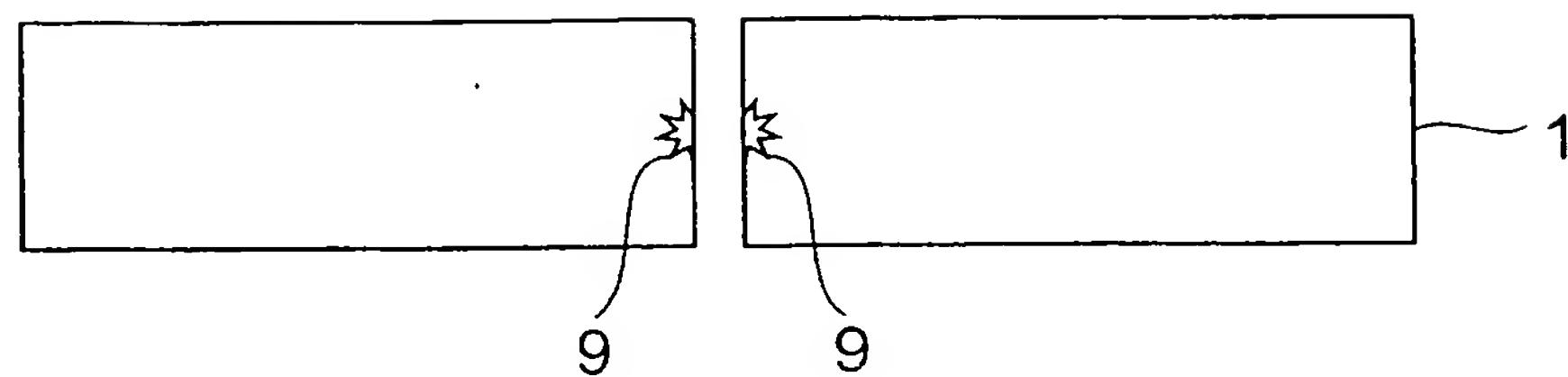
*Fig.9*



***Fig. 10***

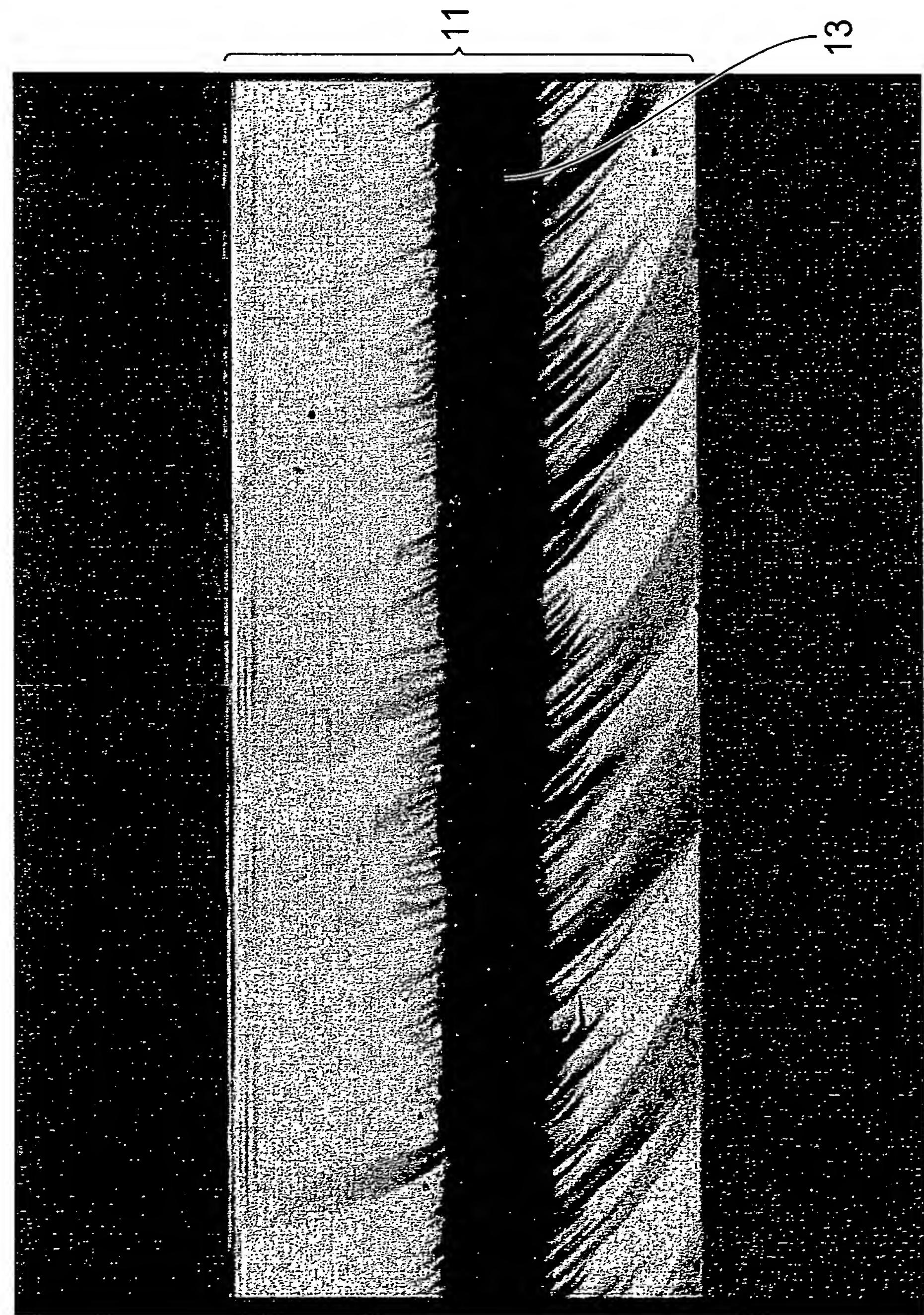


***Fig. 11***

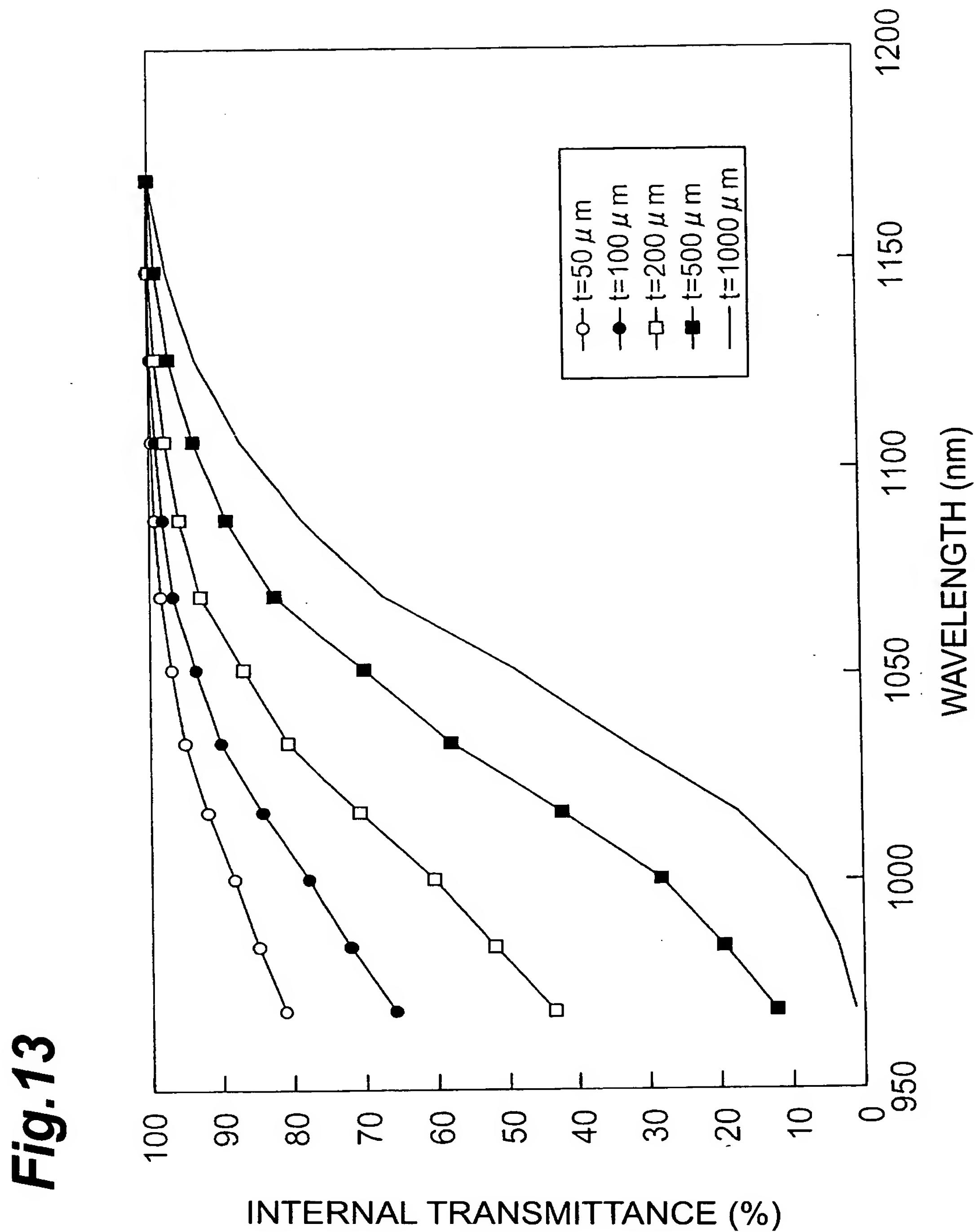


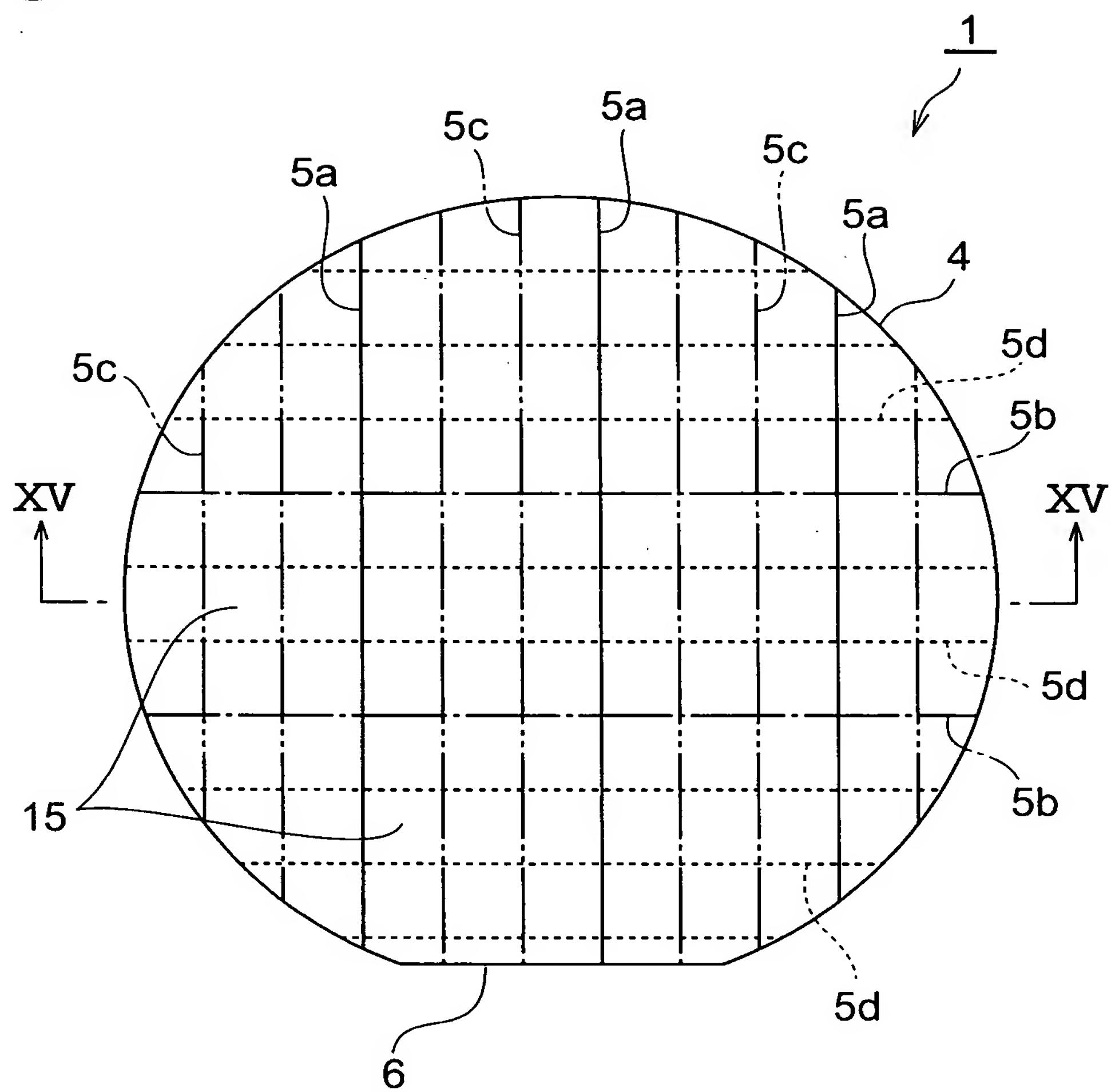
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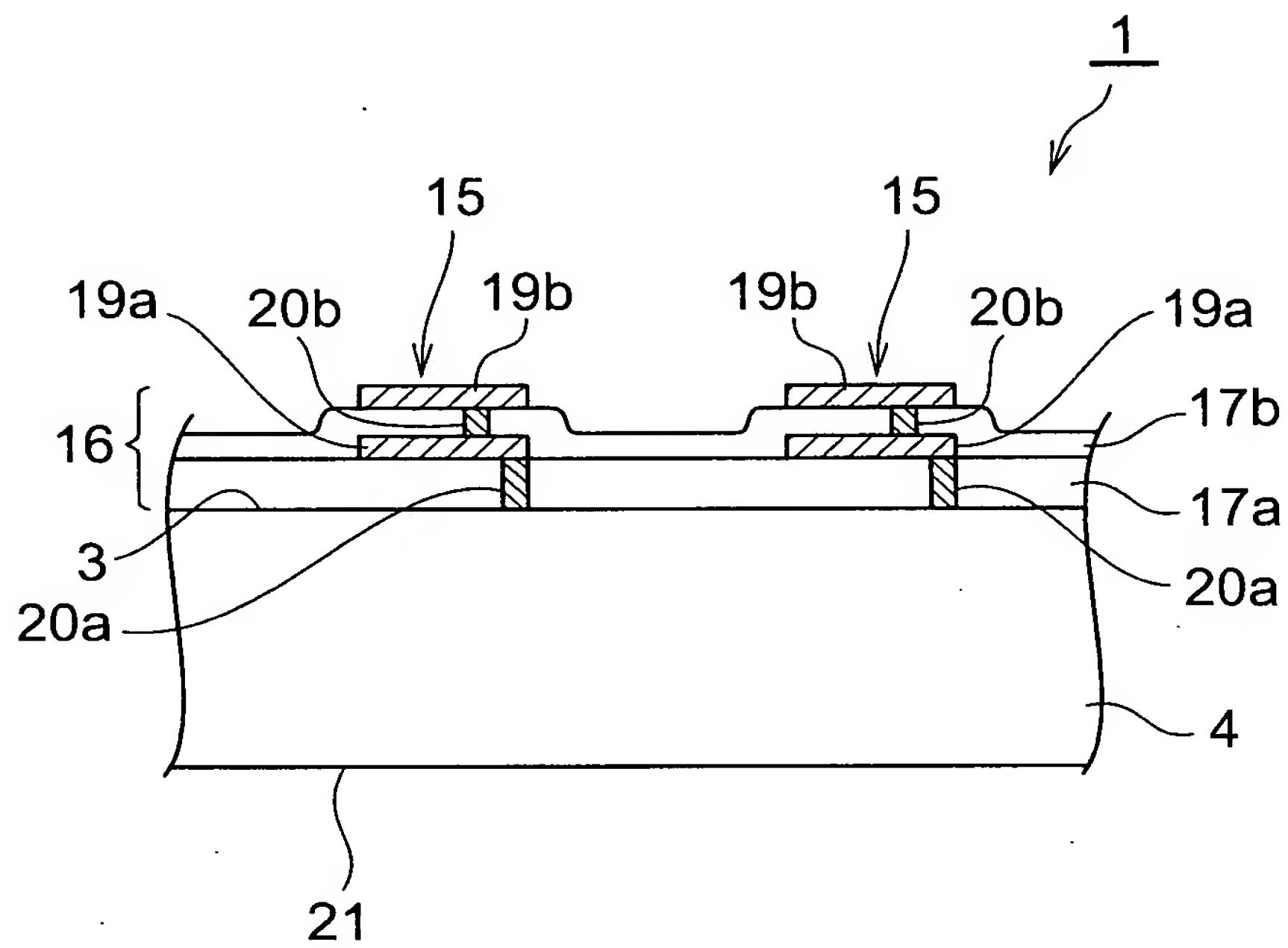
12/39

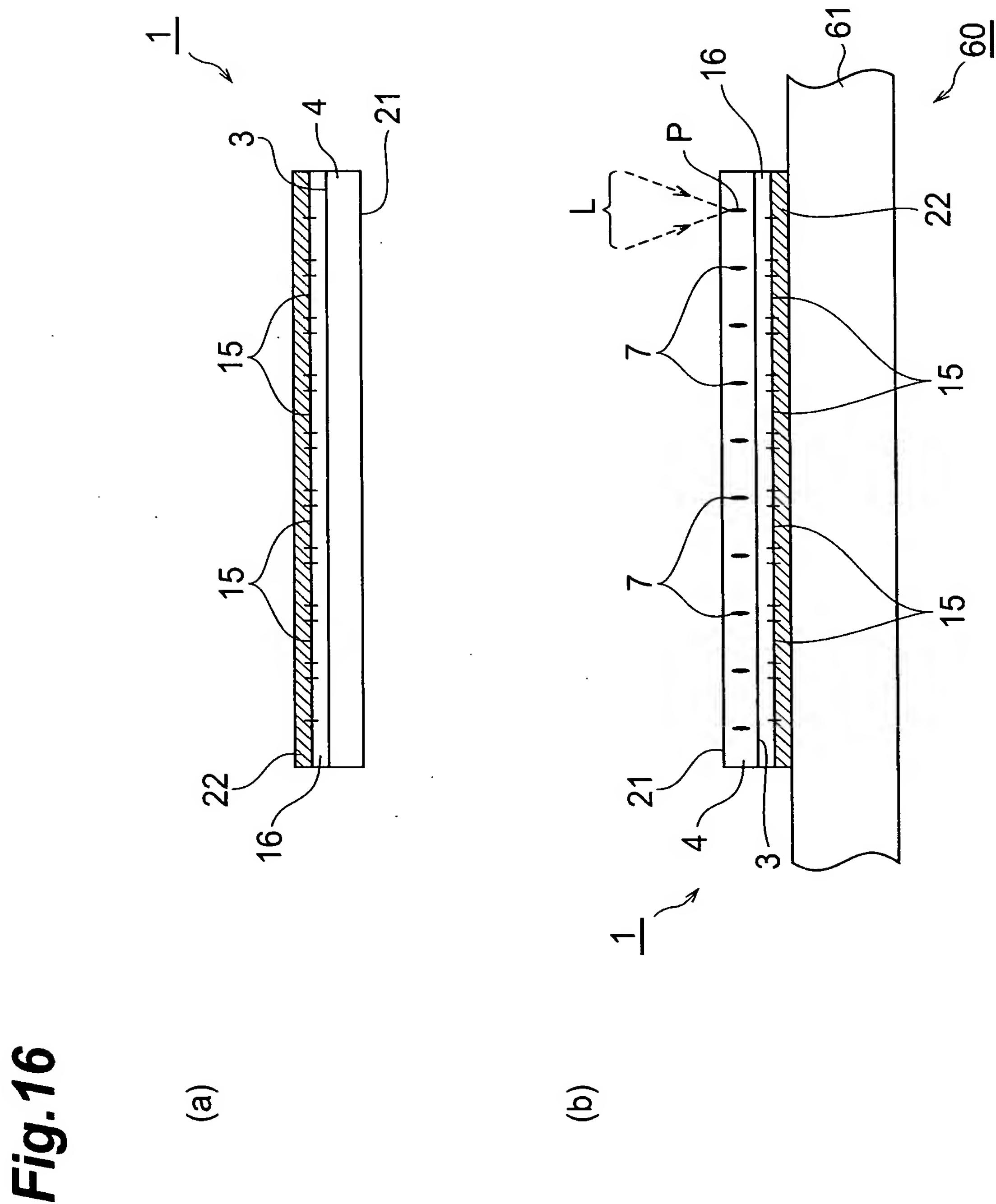


*Fig.12*

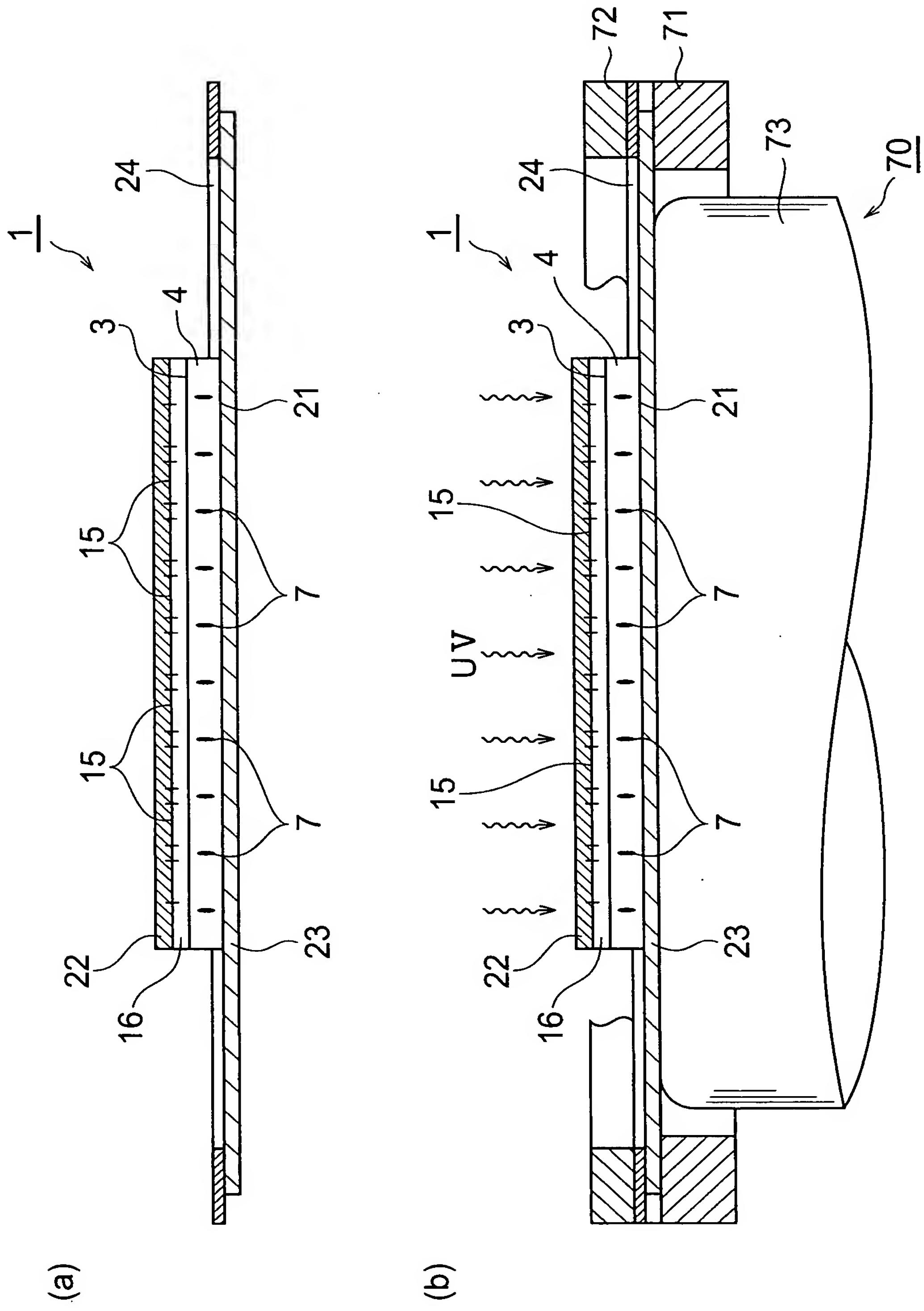


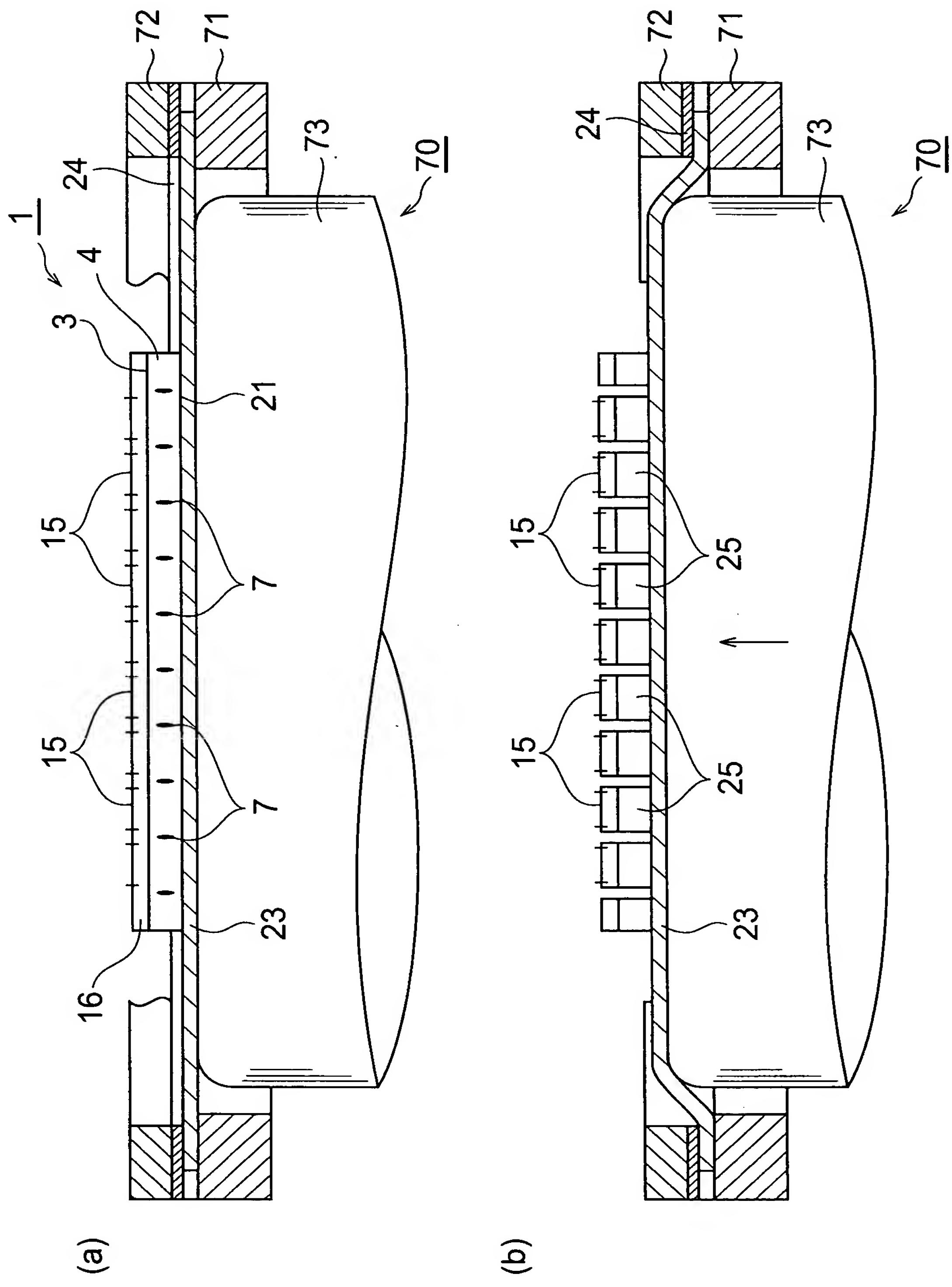
**Fig.14**

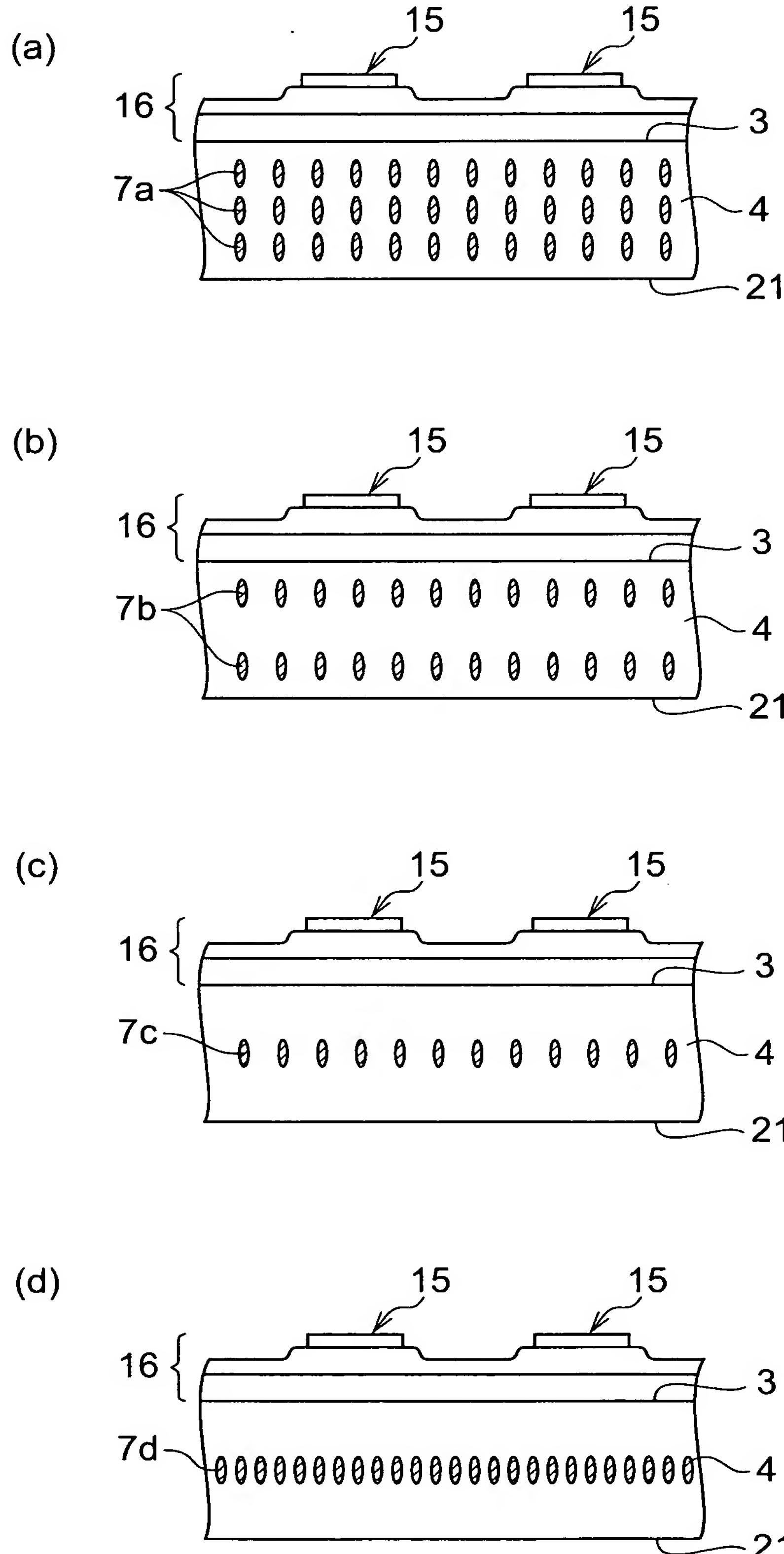
**Fig.15**

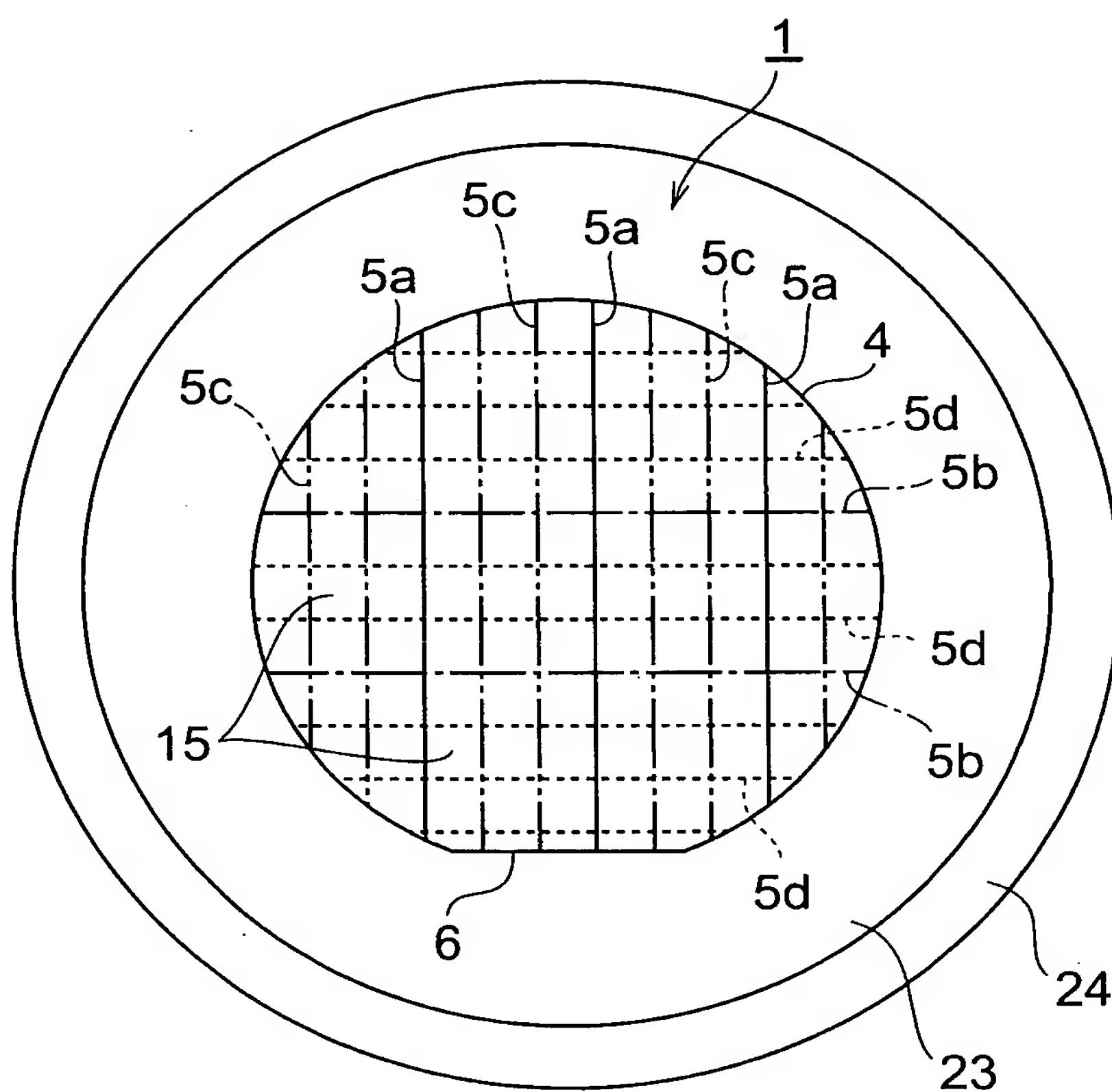


*Fig. 16*

**Fig. 17**

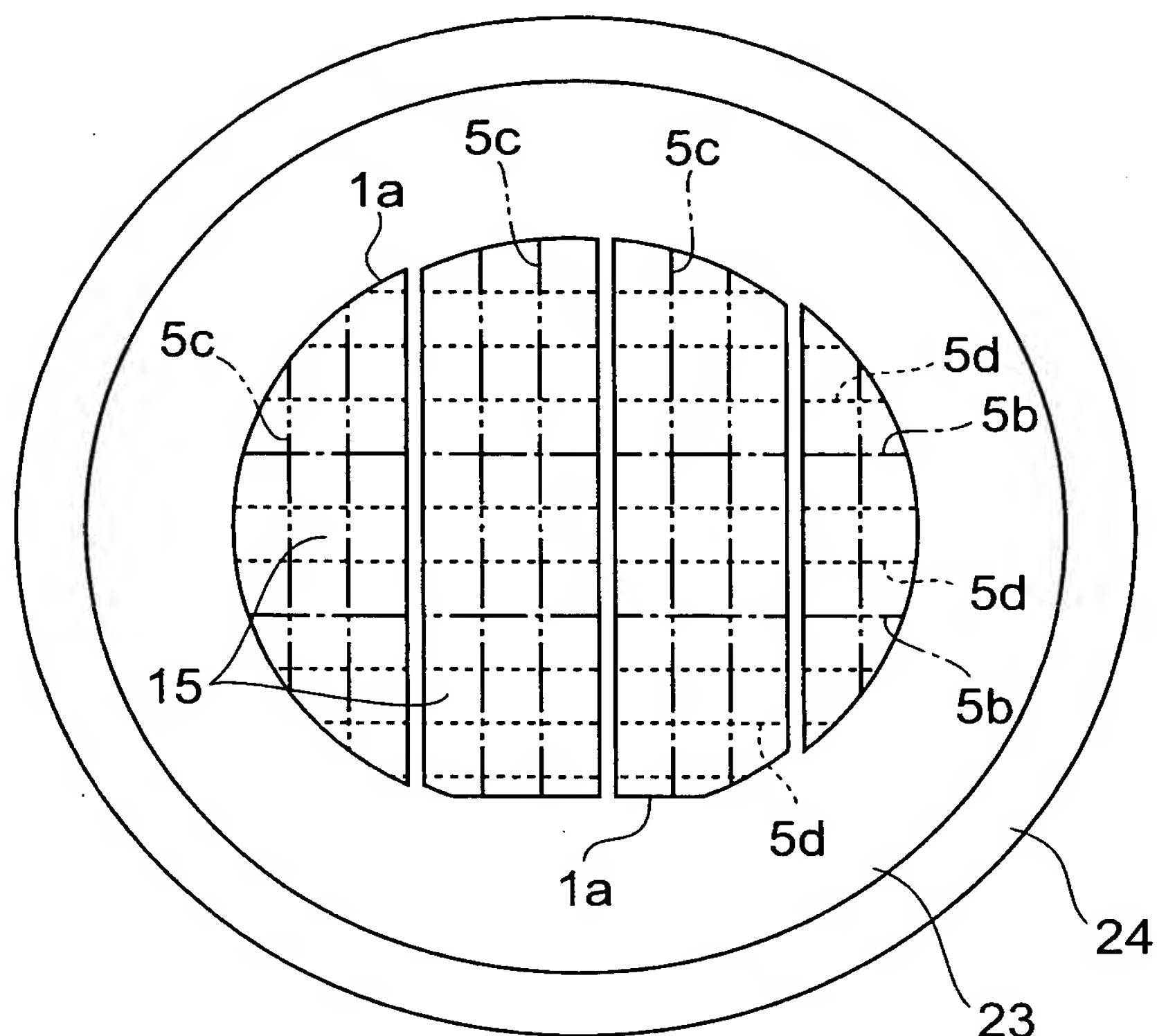
**Fig. 18**

**Fig. 19**

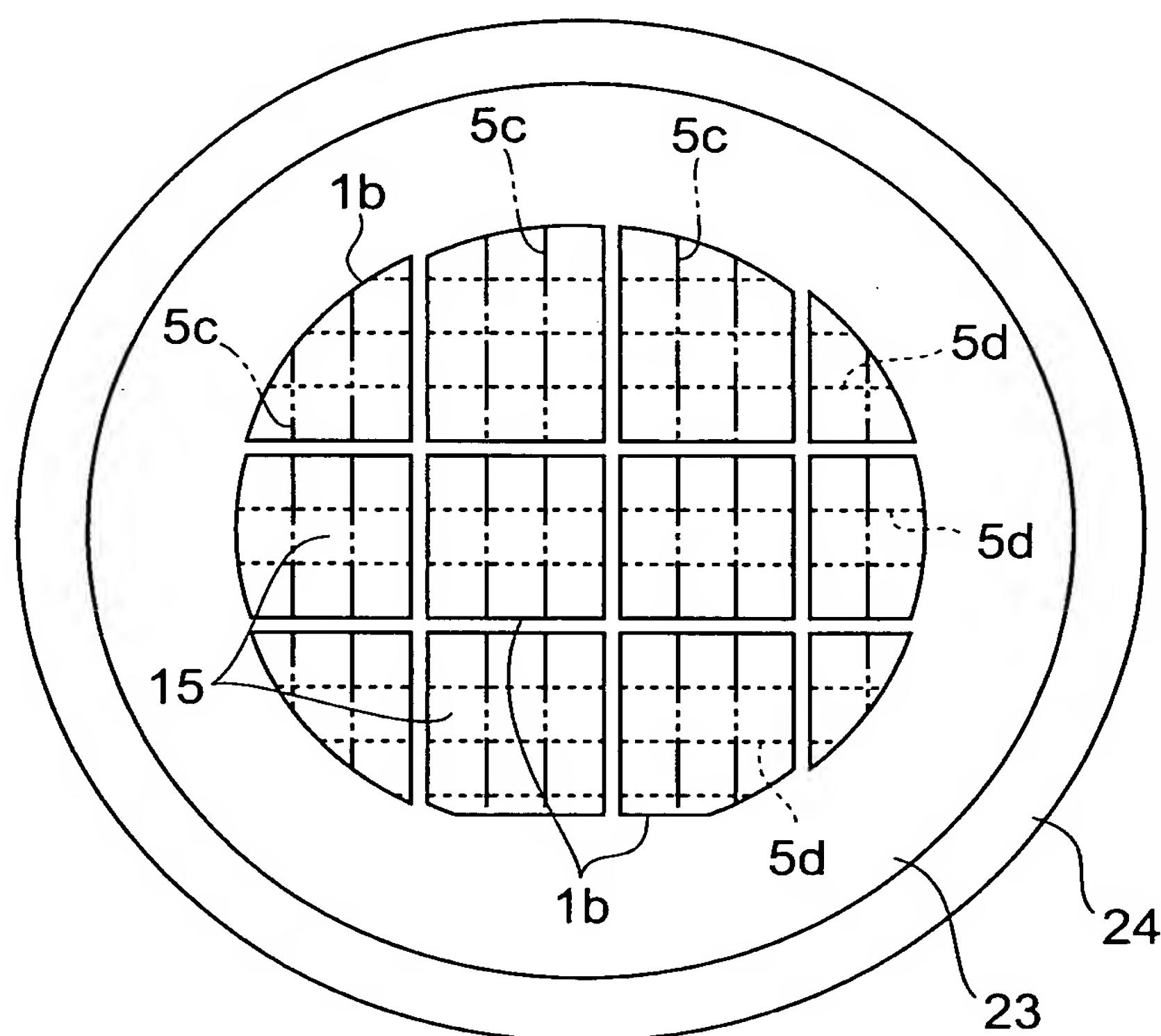
**Fig.20**

**Fig. 21**

(a)

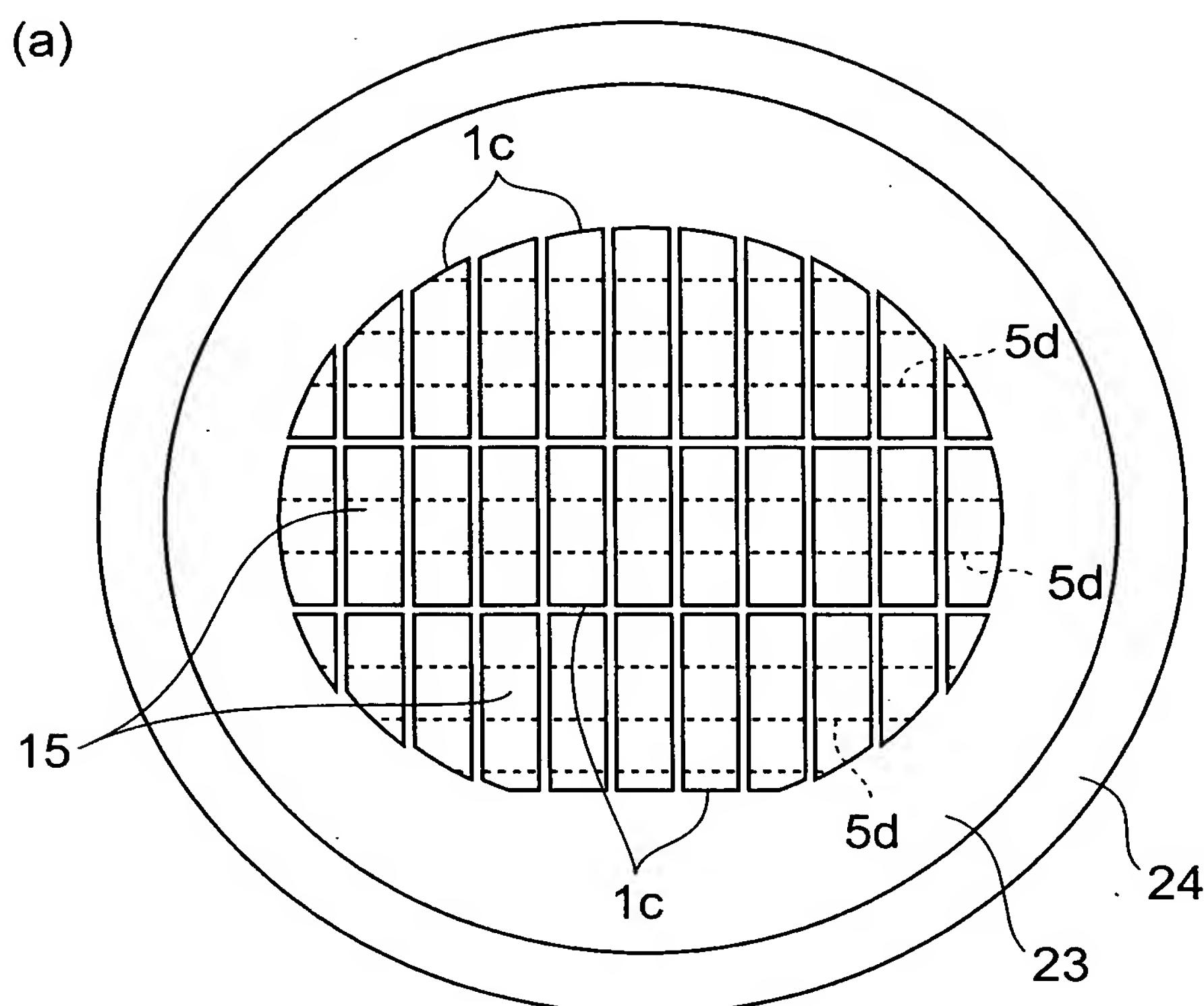


(b)

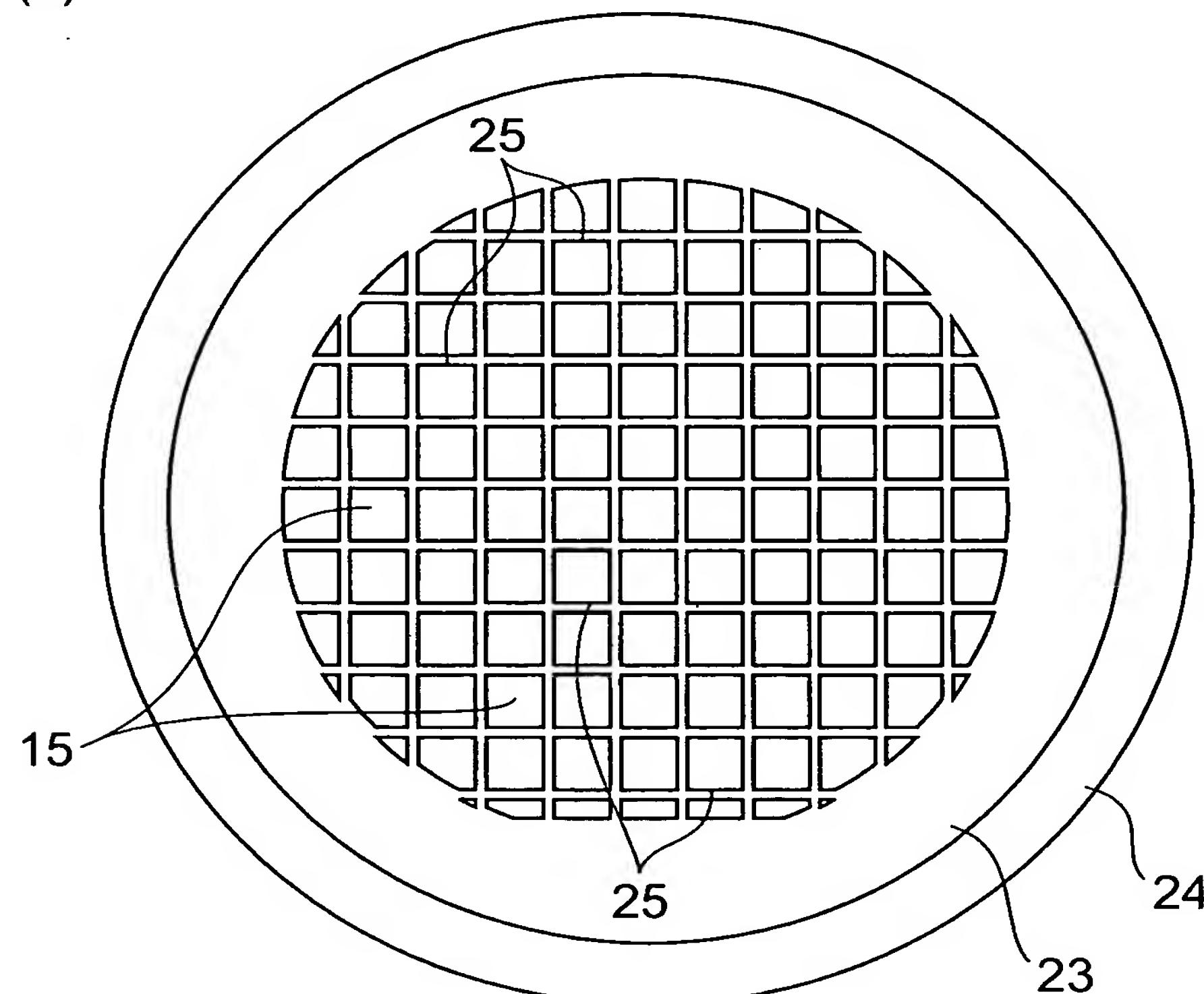


**Fig.22**

(a)

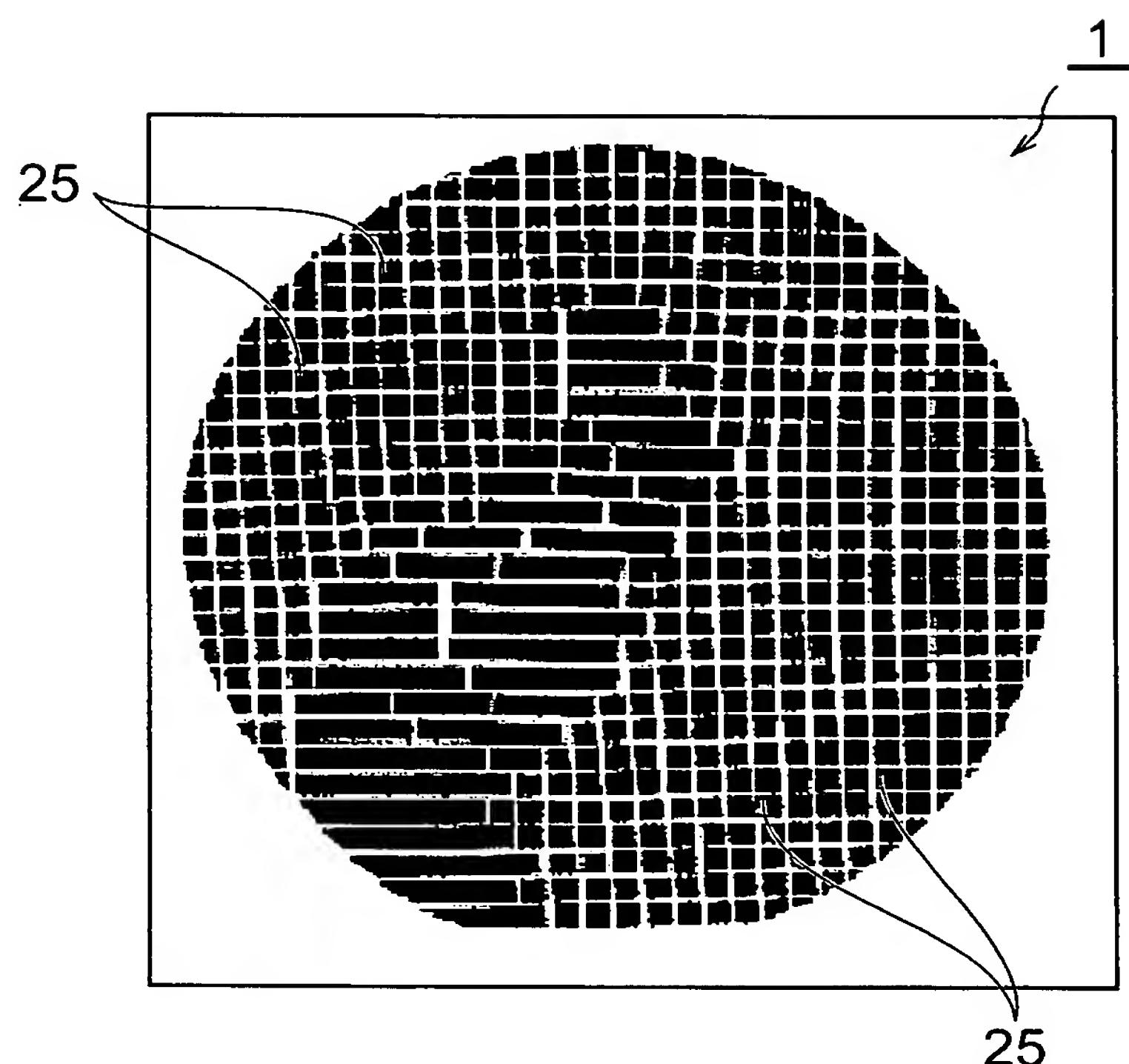


(b)

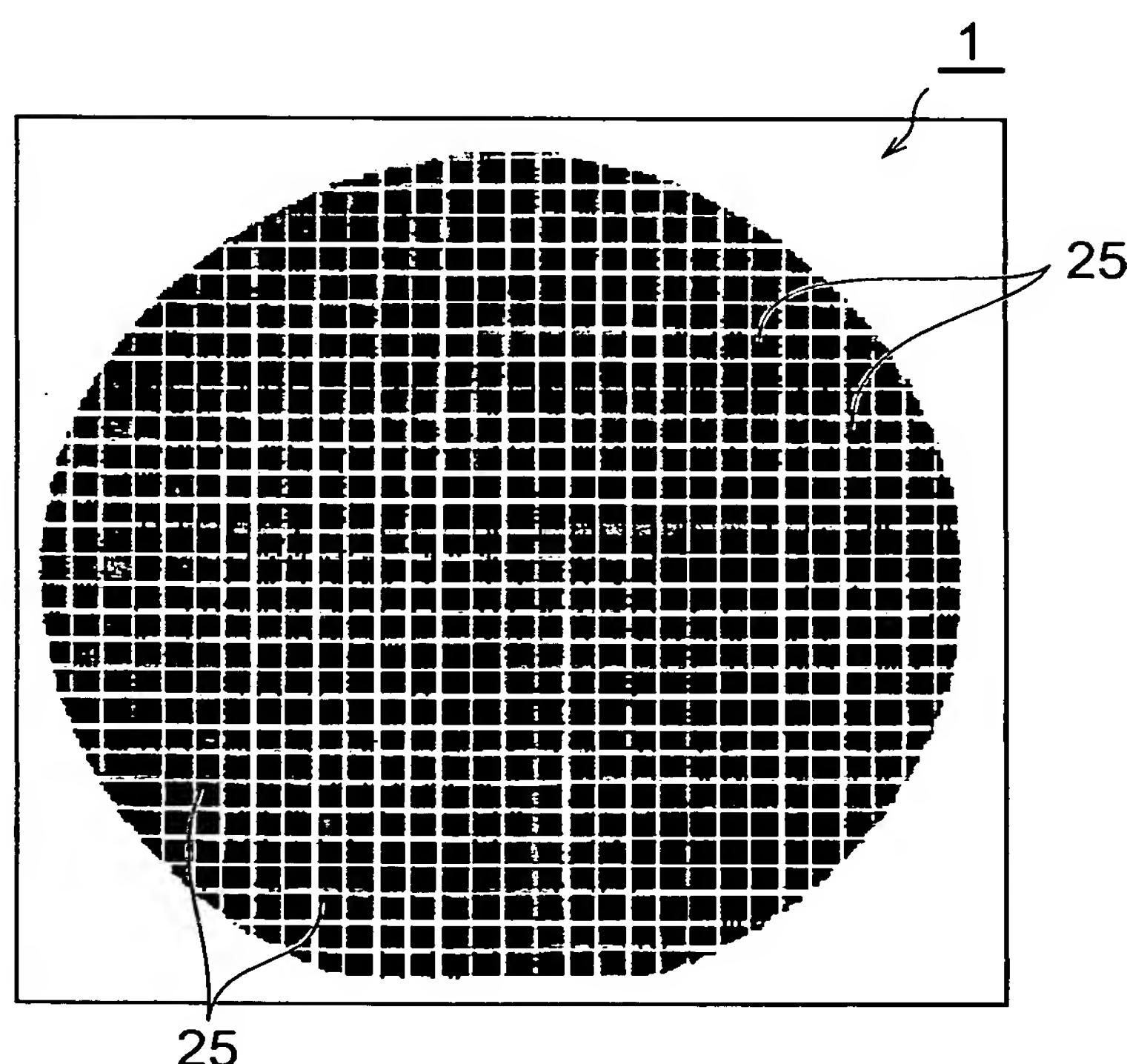


**Fig.23**

(a)

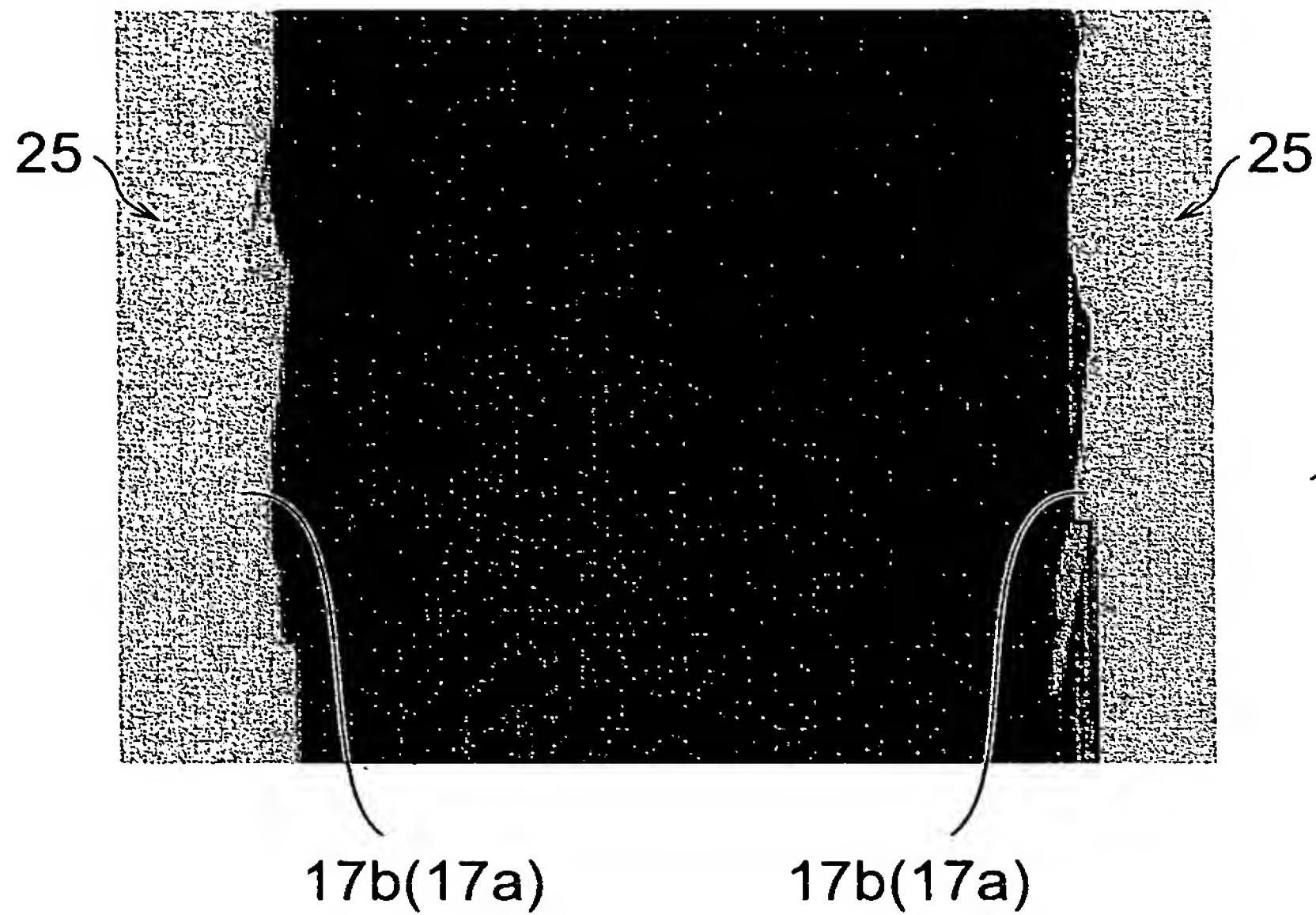


(b)

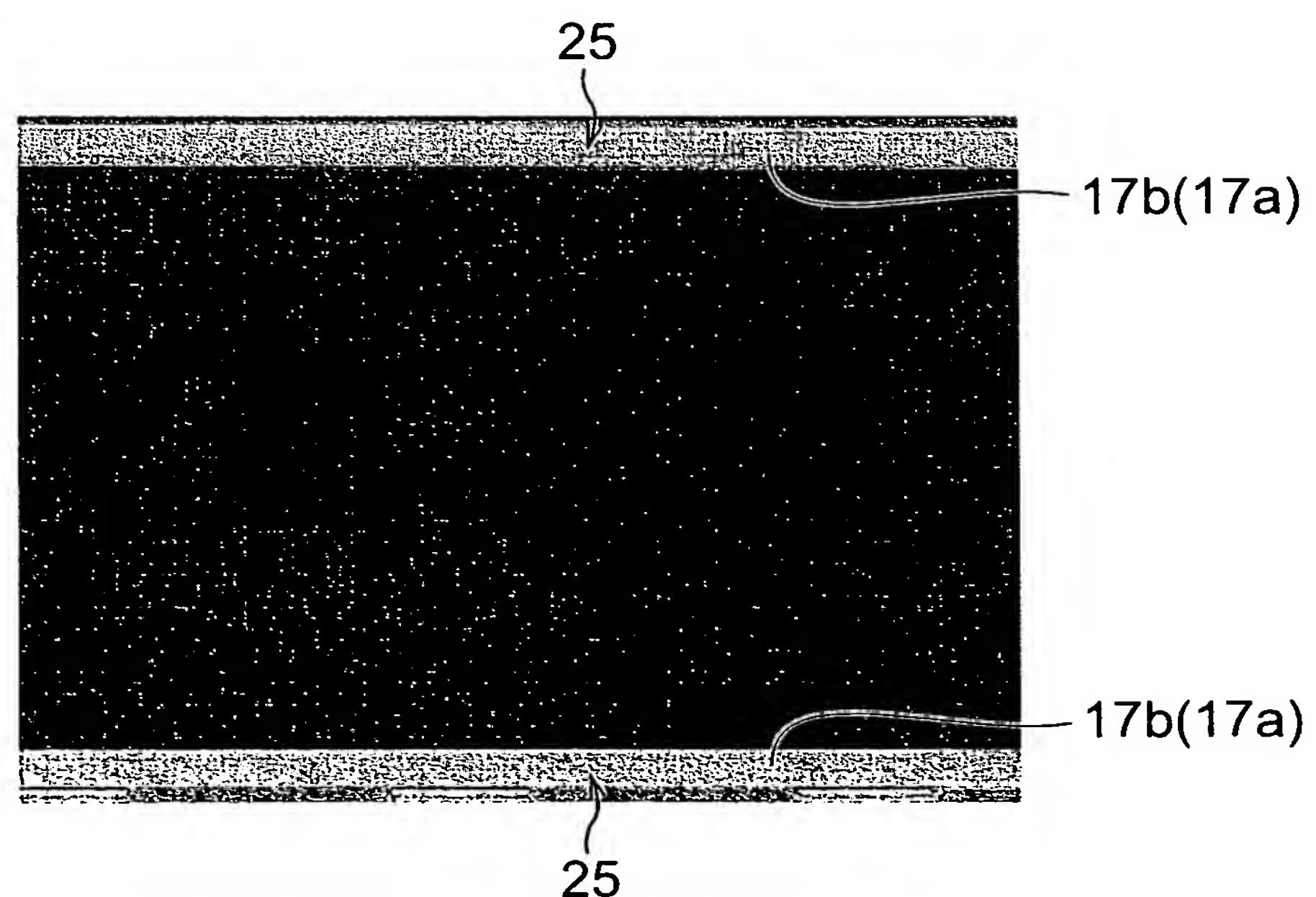


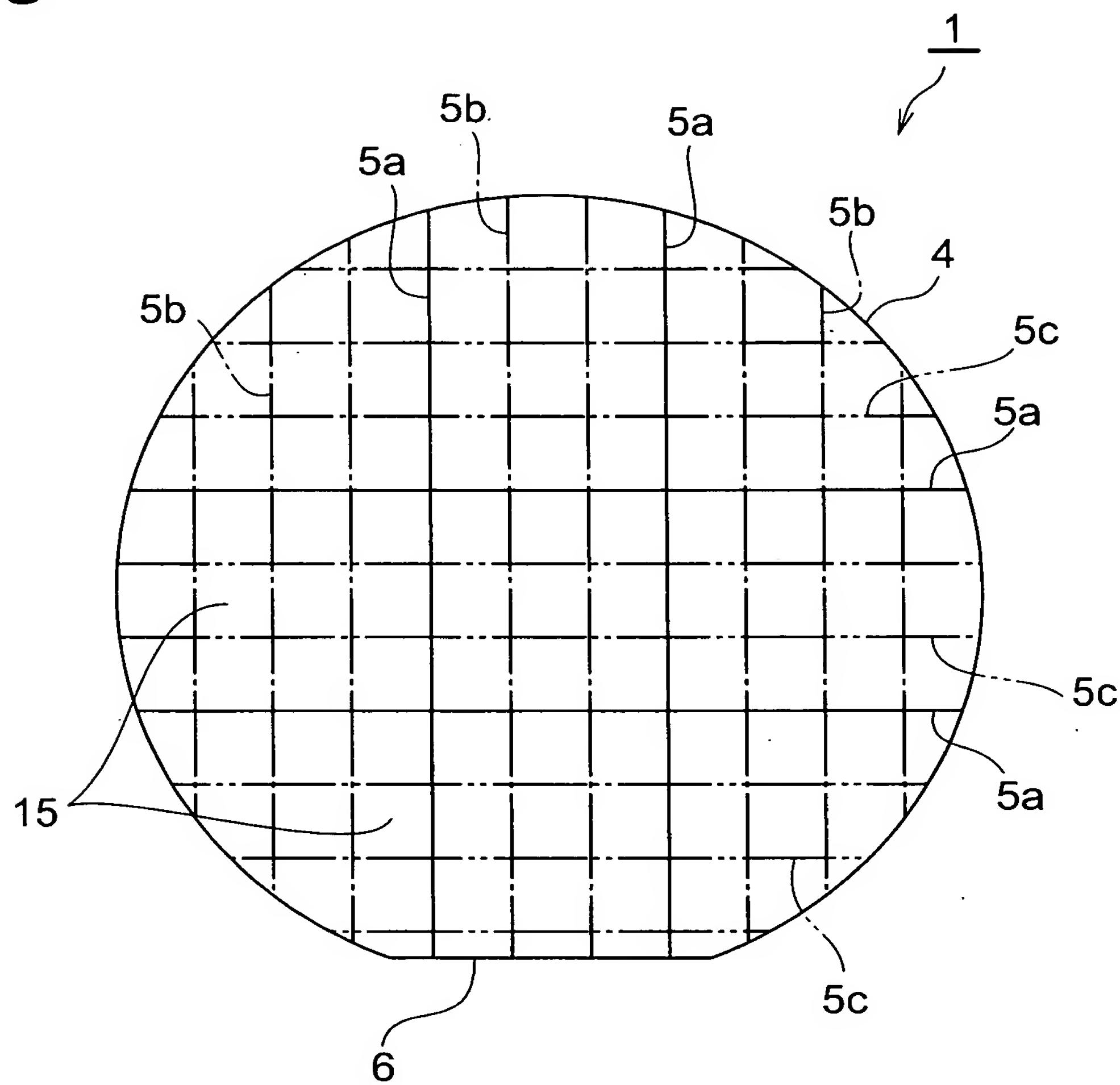
**Fig. 24**

(a)



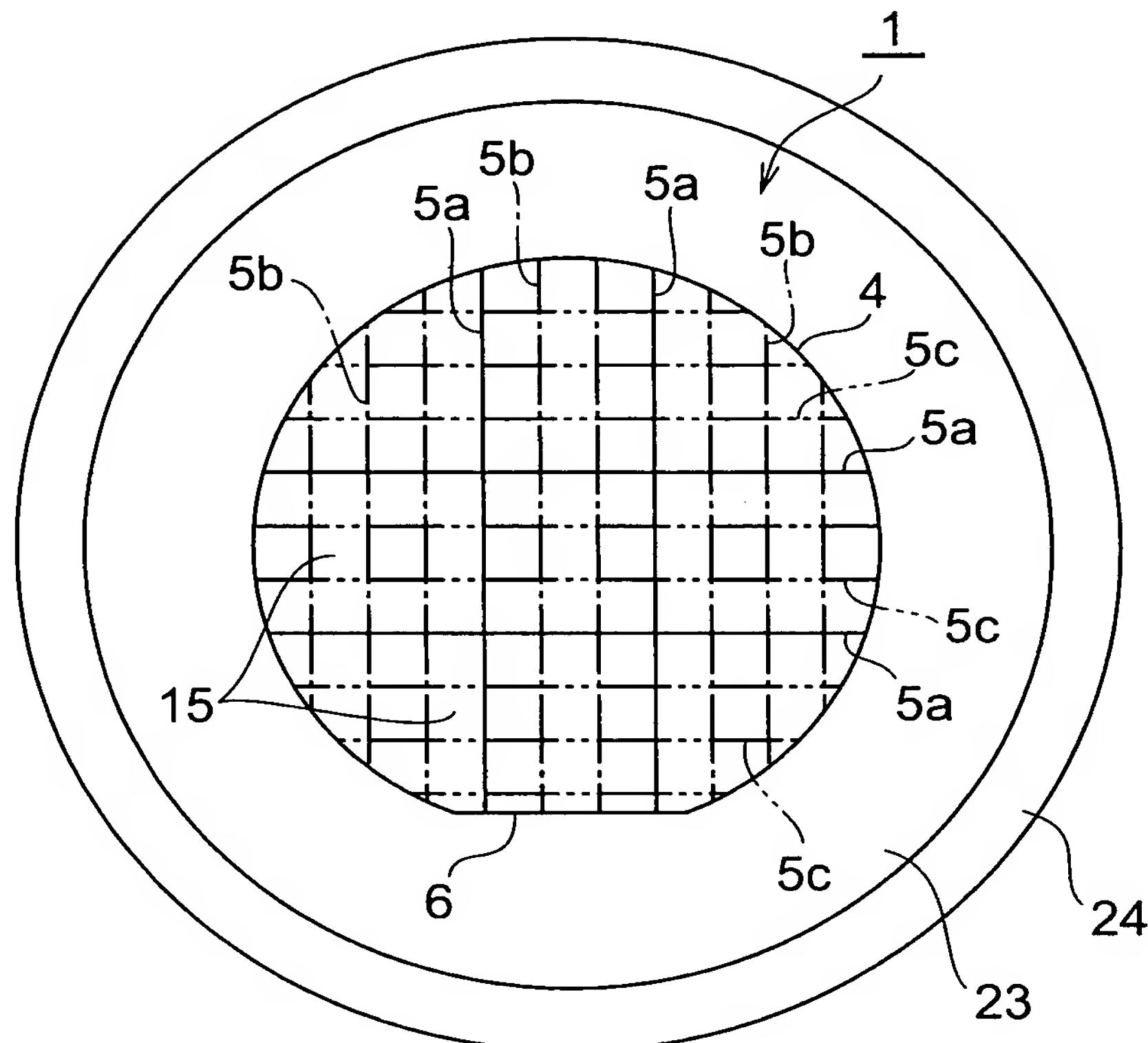
(b)



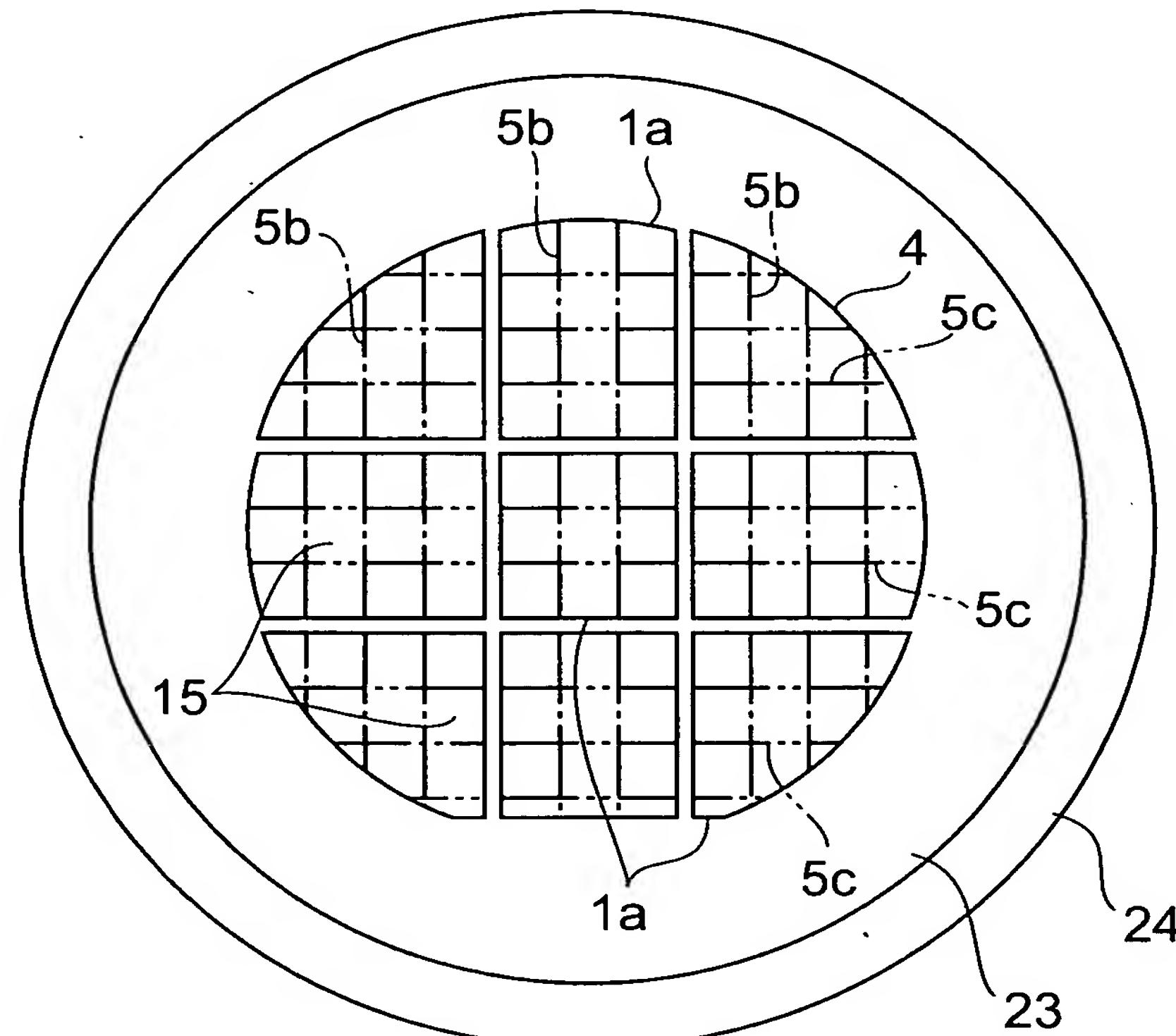
**Fig. 25**

**Fig. 26**

(a)

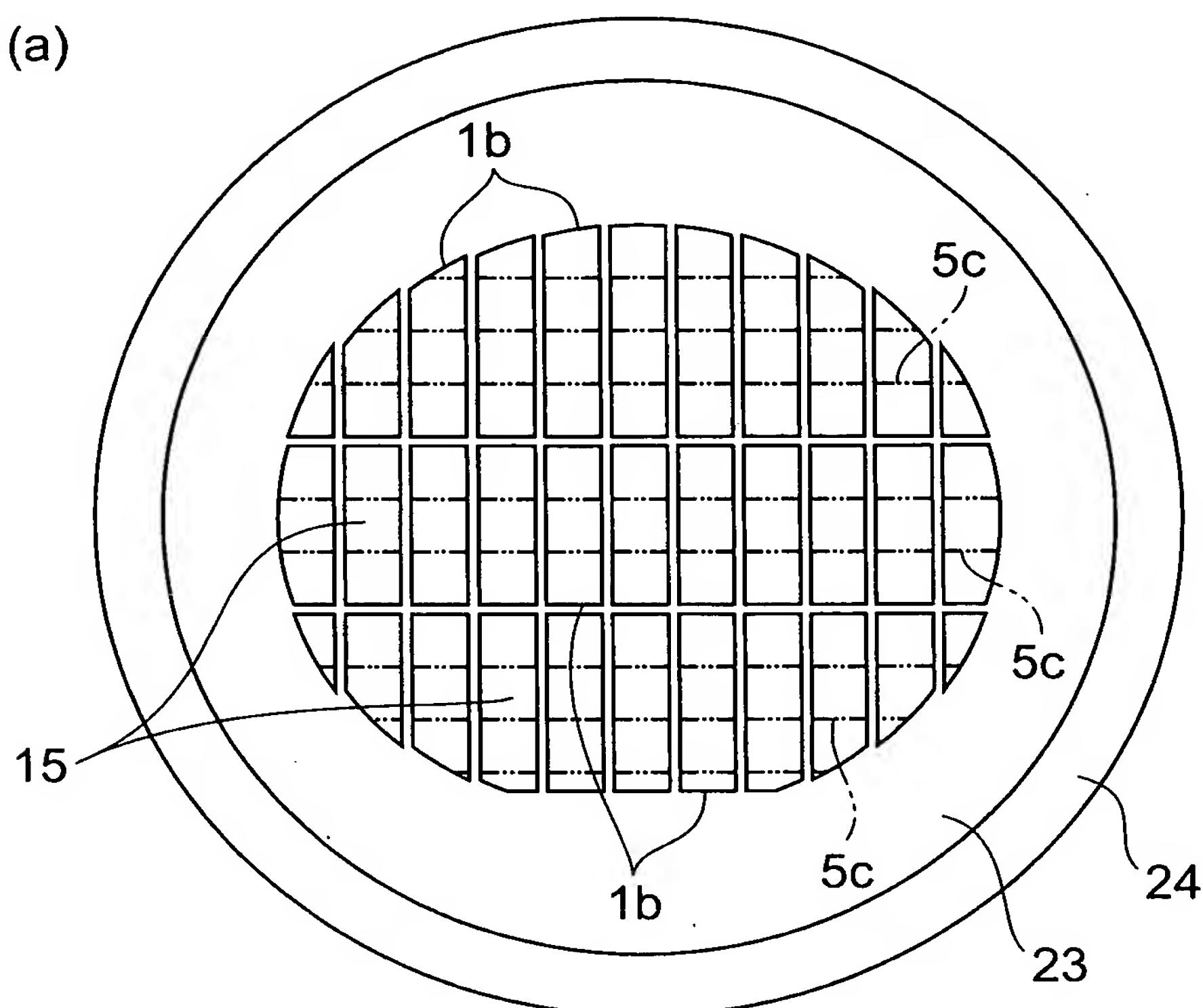


(b)

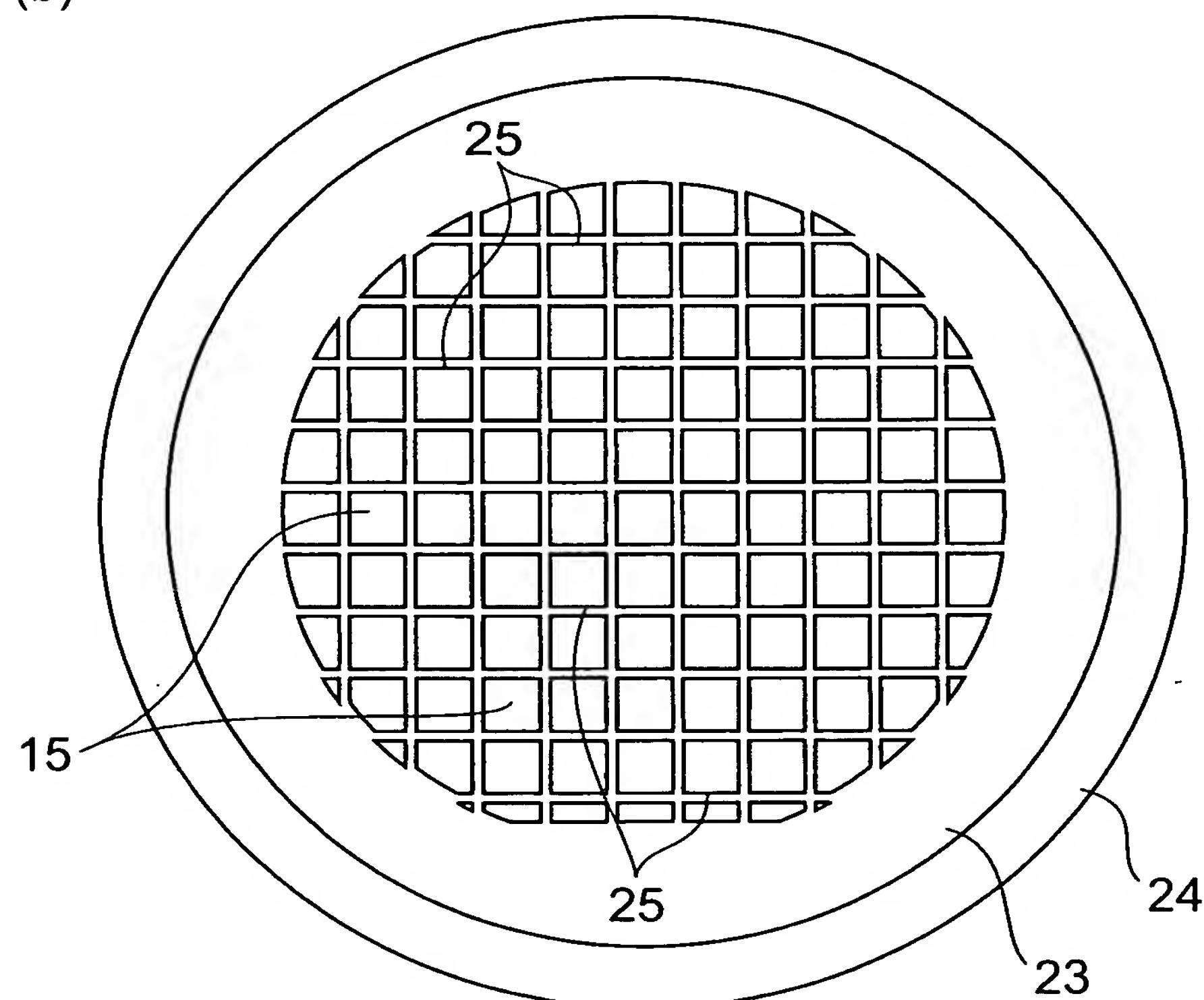


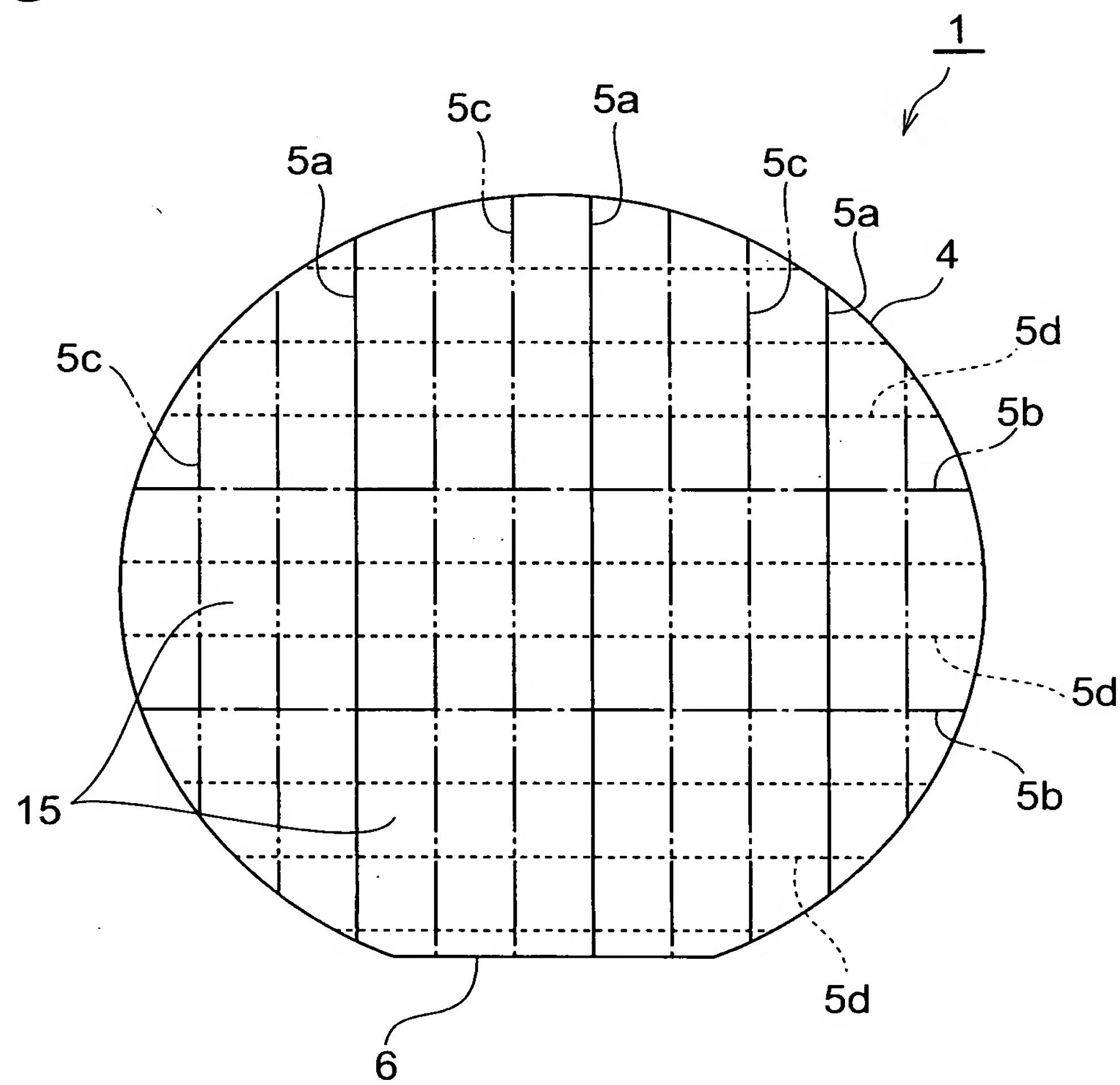
**Fig. 27**

(a)

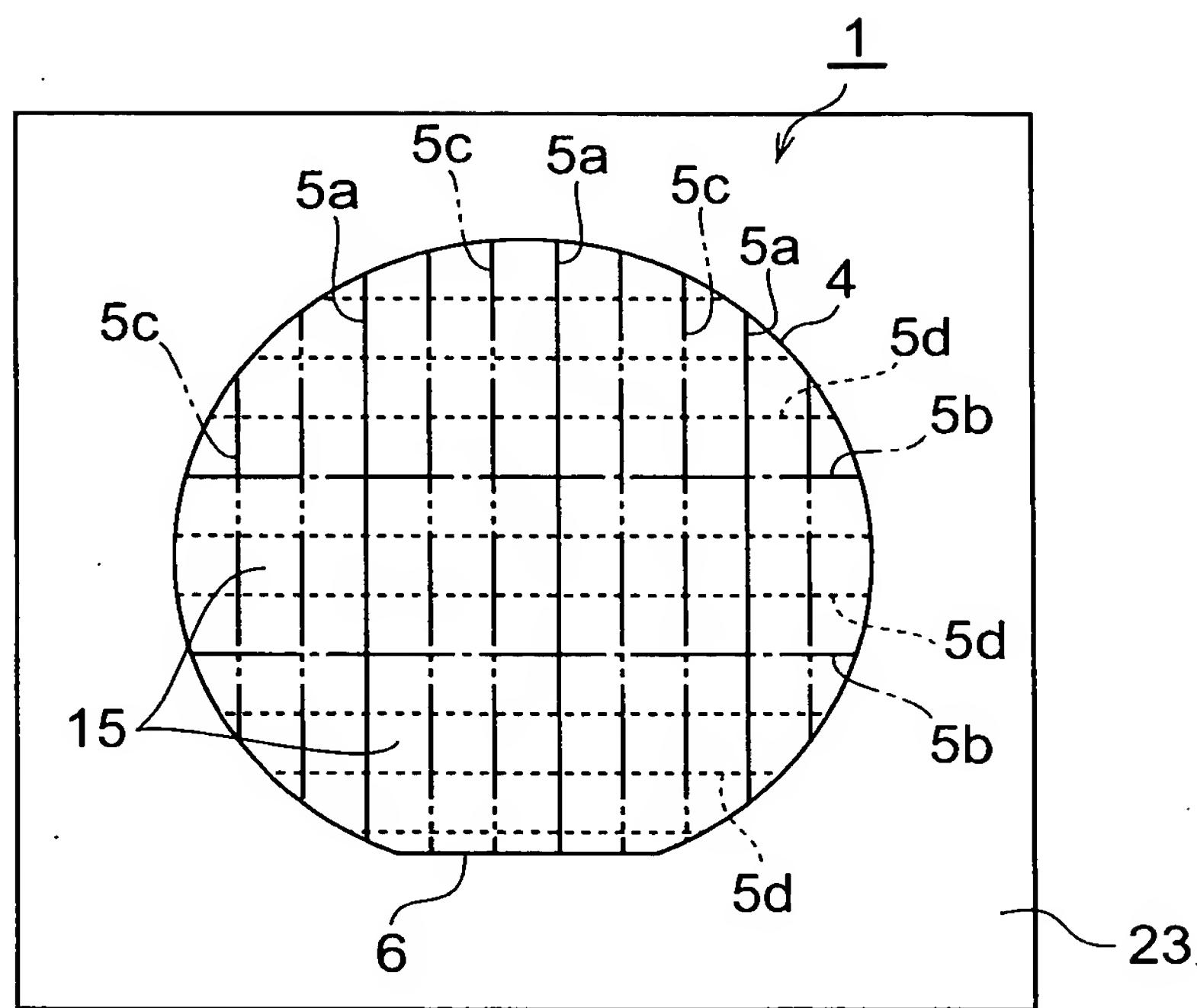


(b)



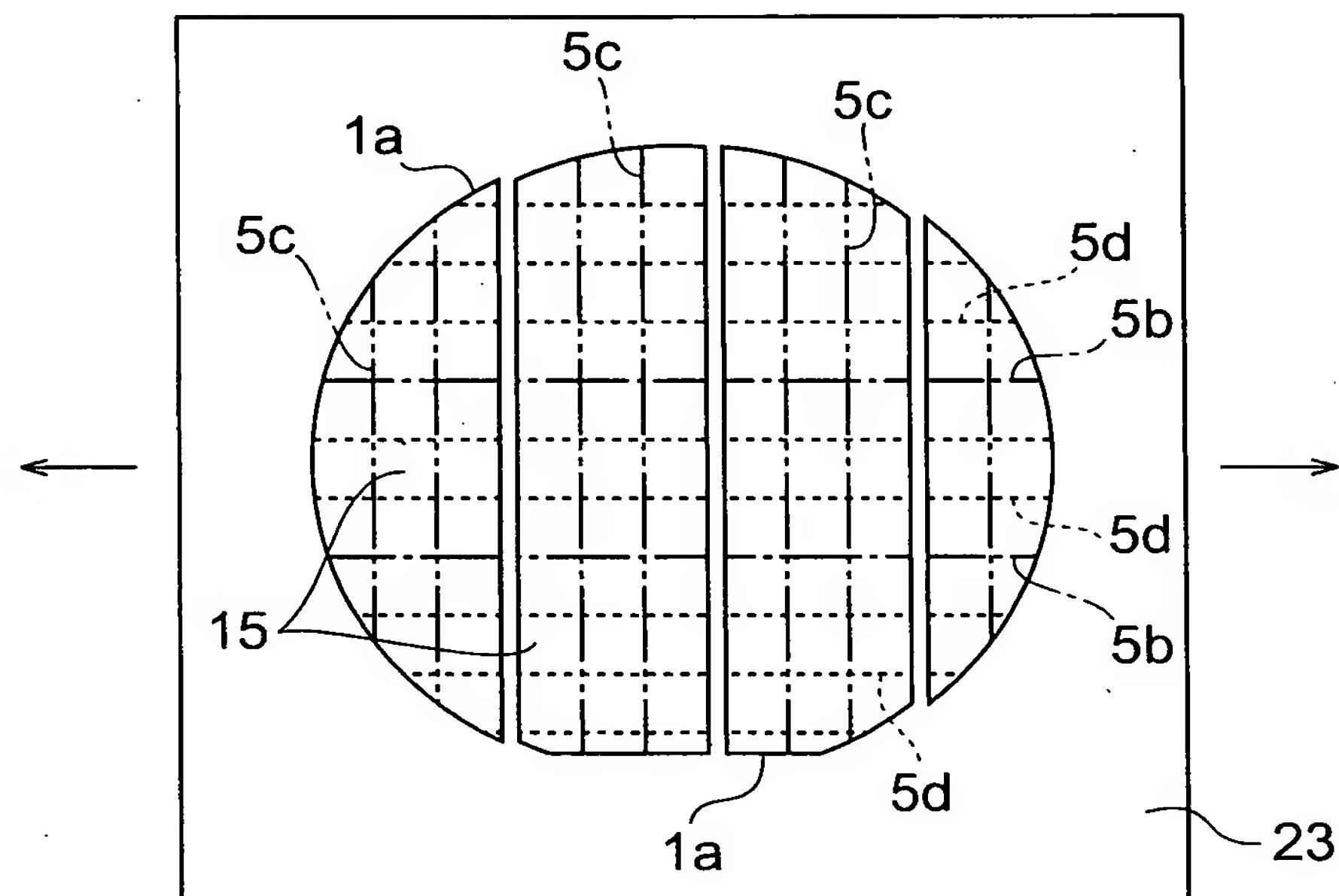
**Fig. 28**

*Fig. 29*

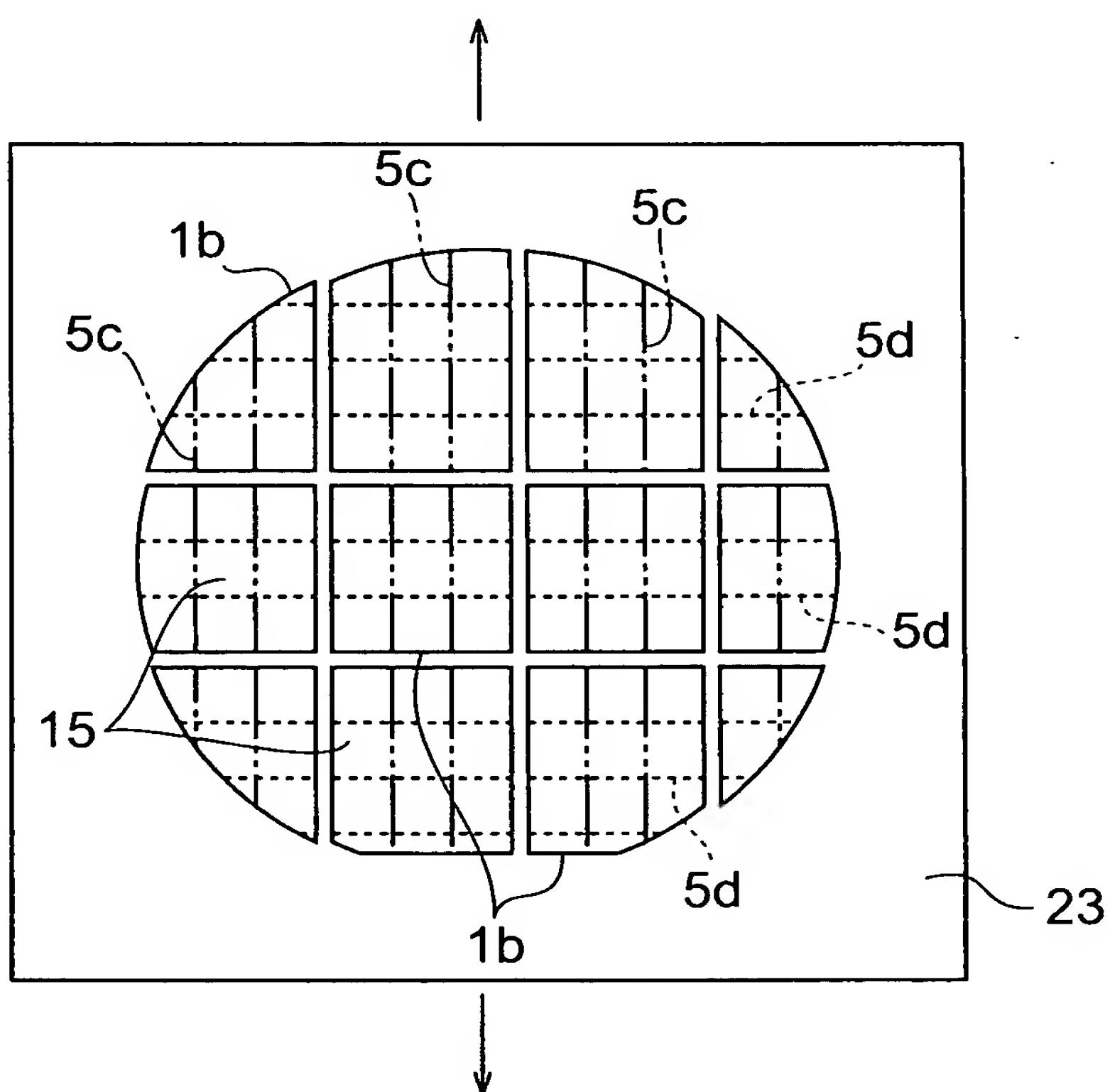


**Fig. 30**

(a)

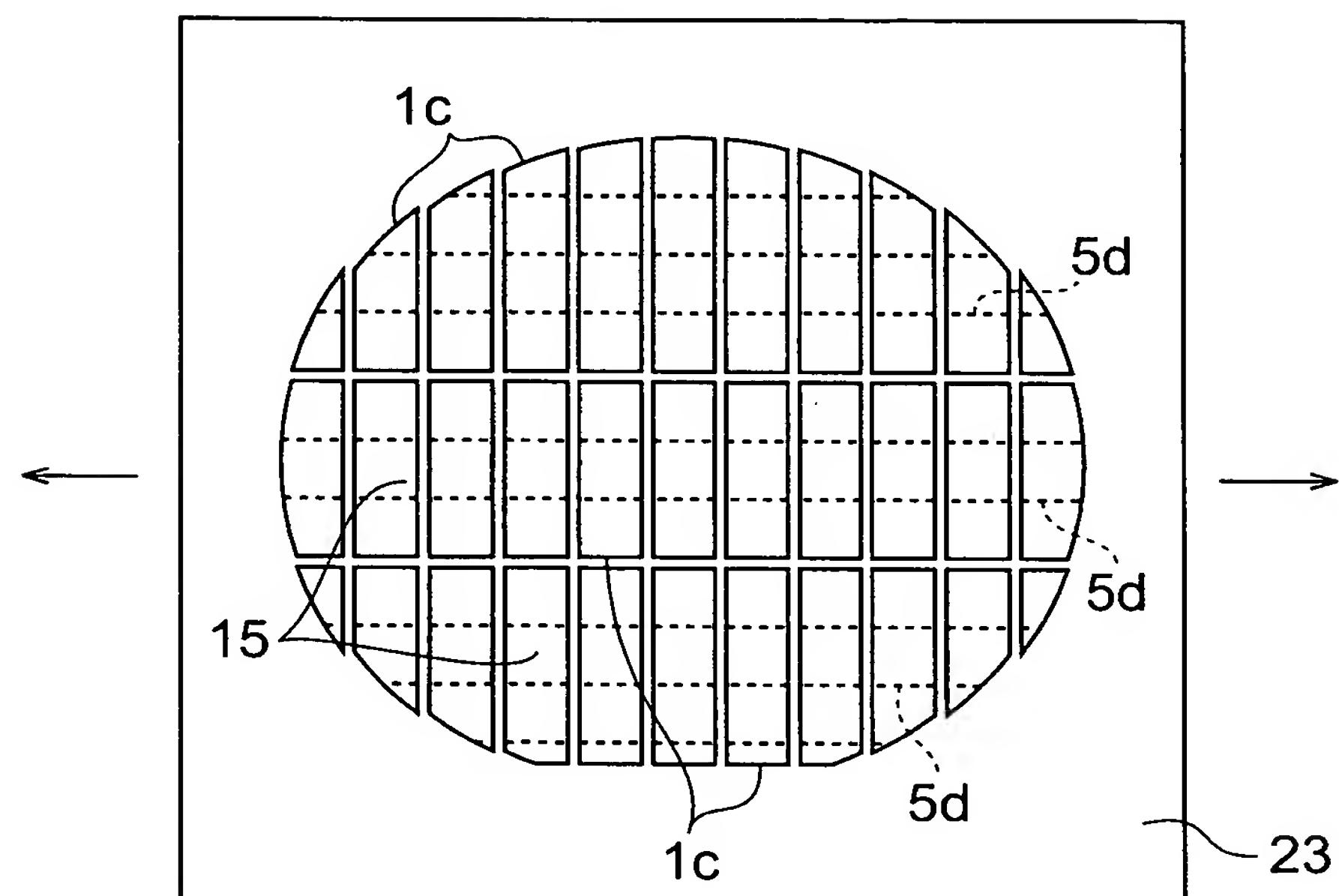


(b)

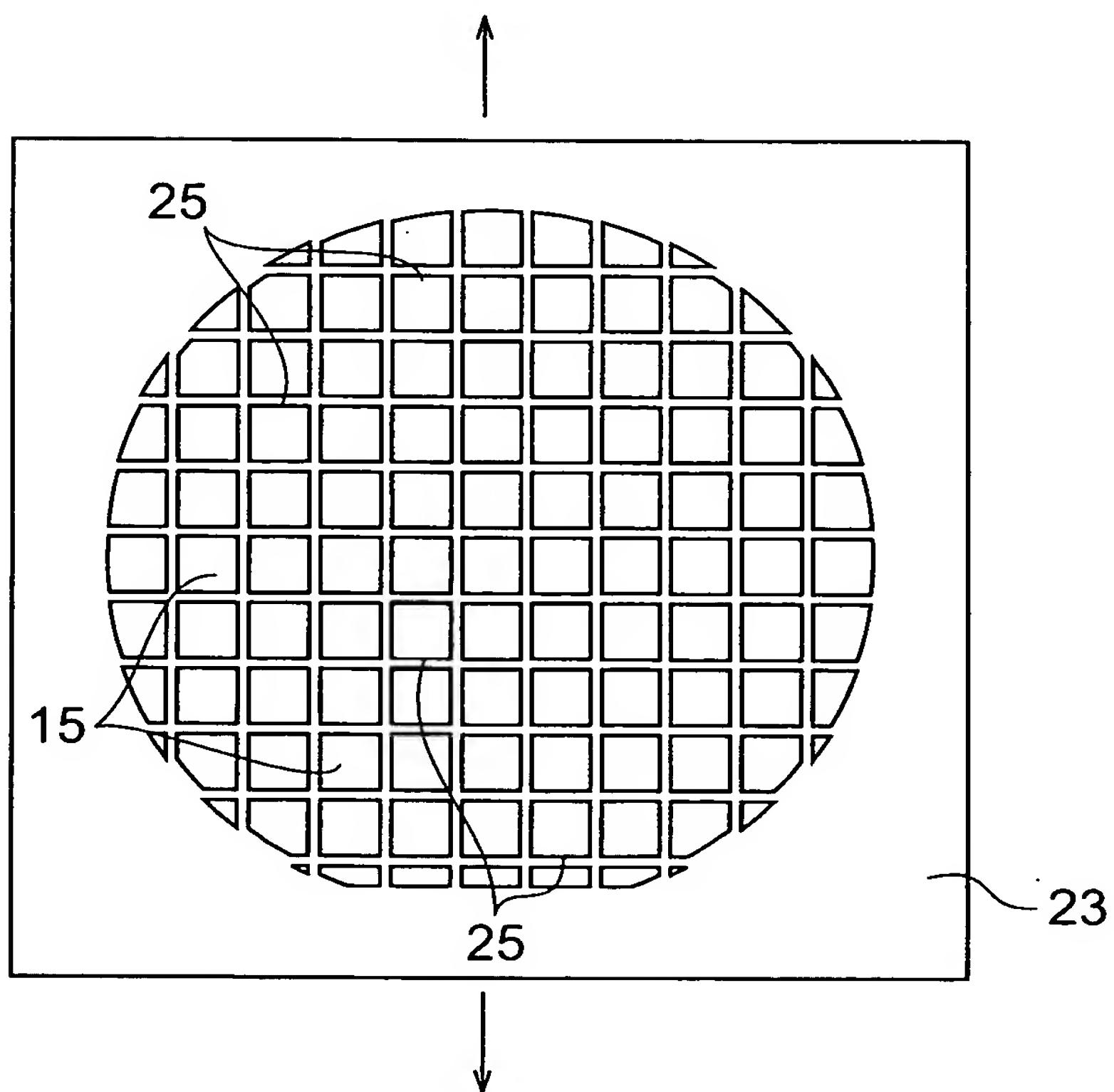


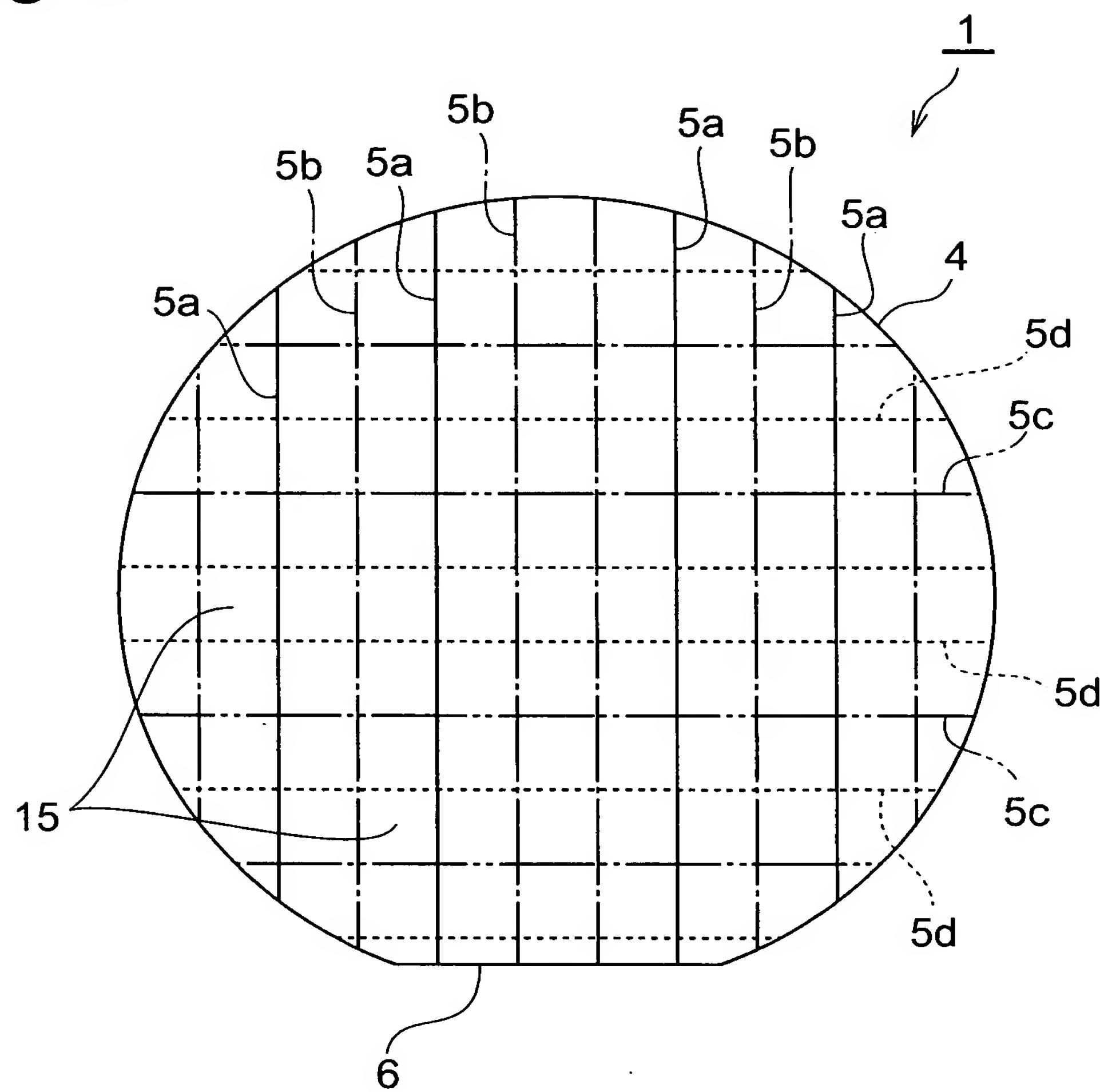
**Fig. 31**

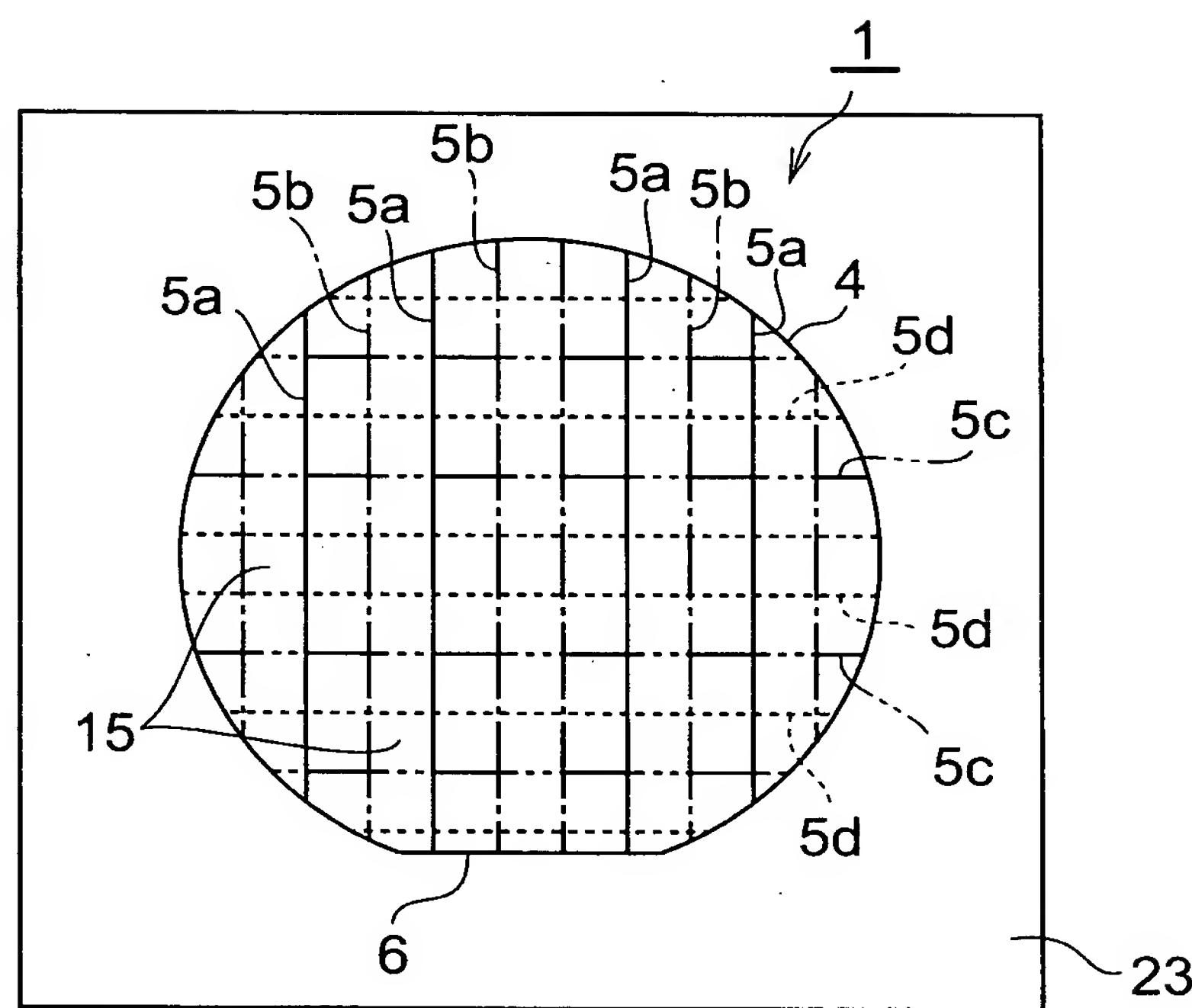
(a)



(b)

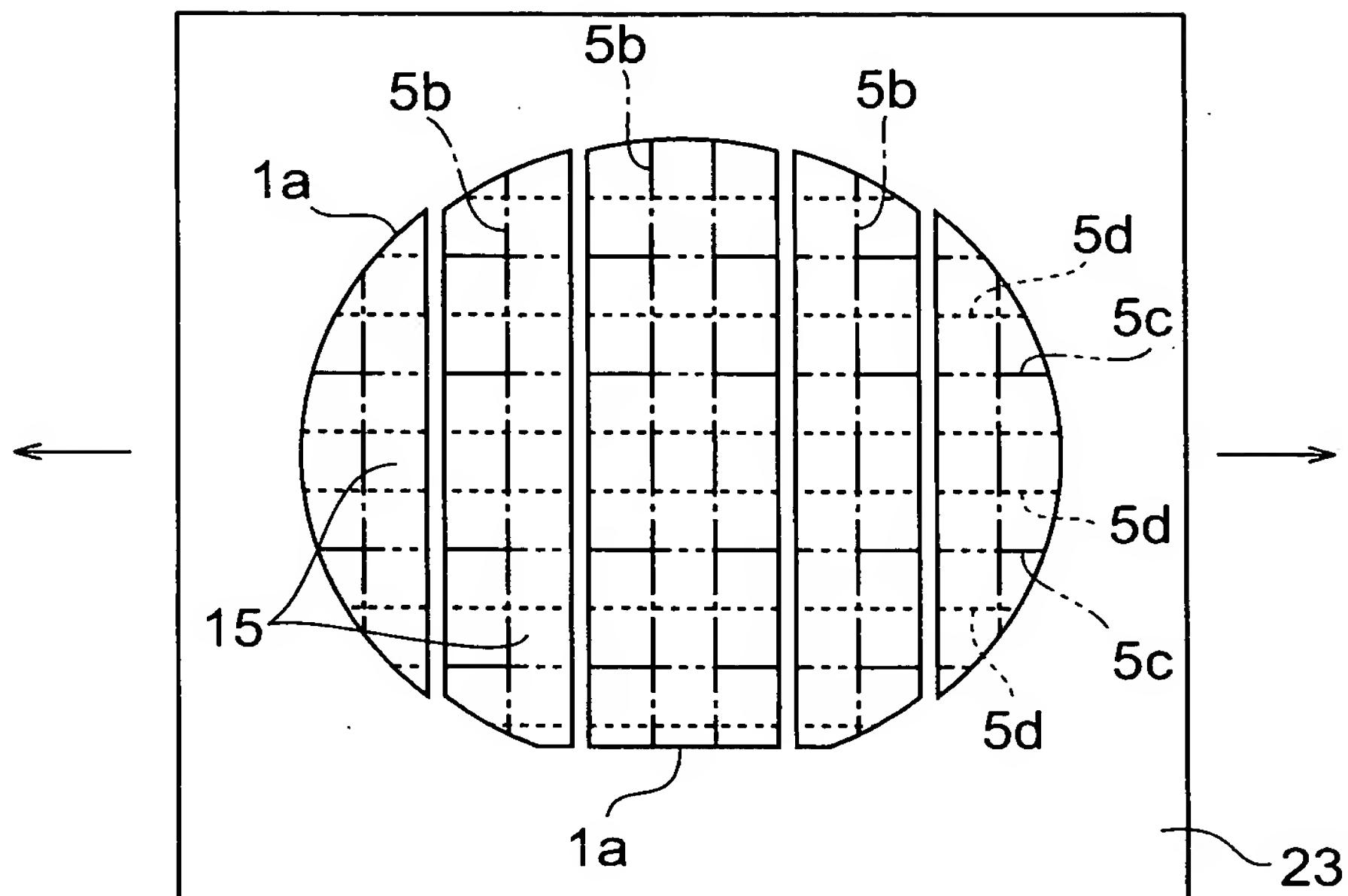


**Fig.32**

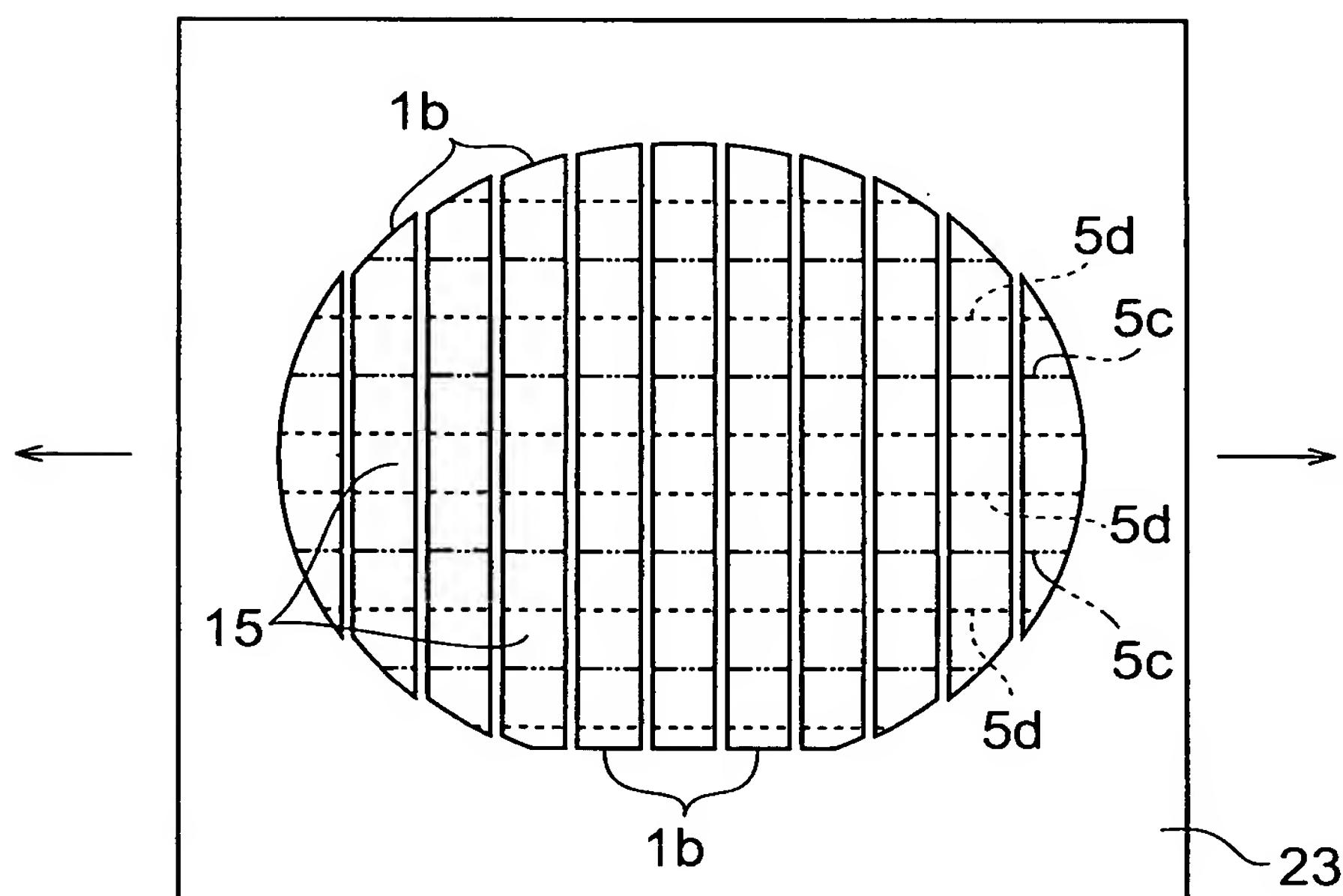
**Fig. 33**

**Fig.34**

(a)

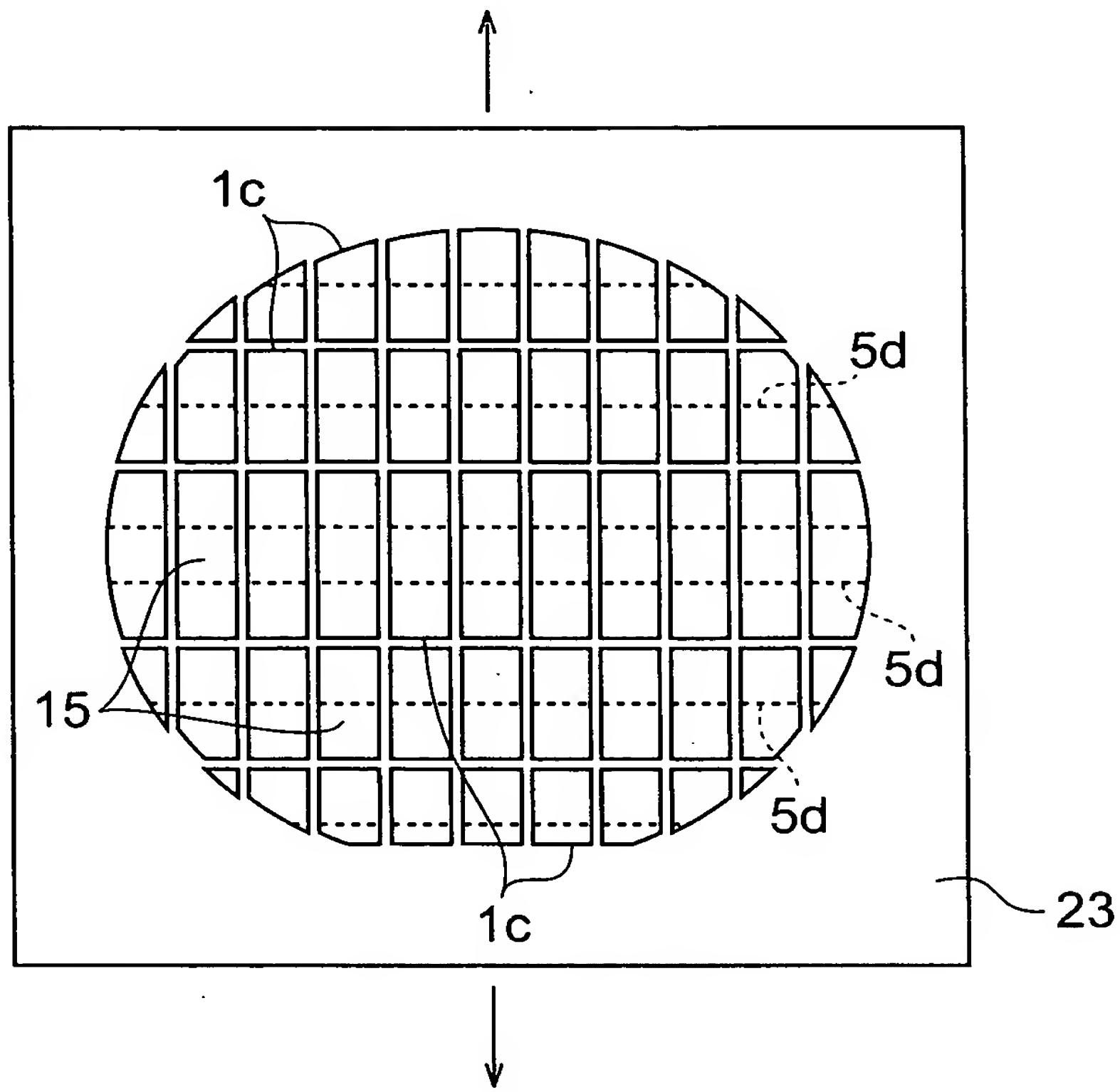


(b)

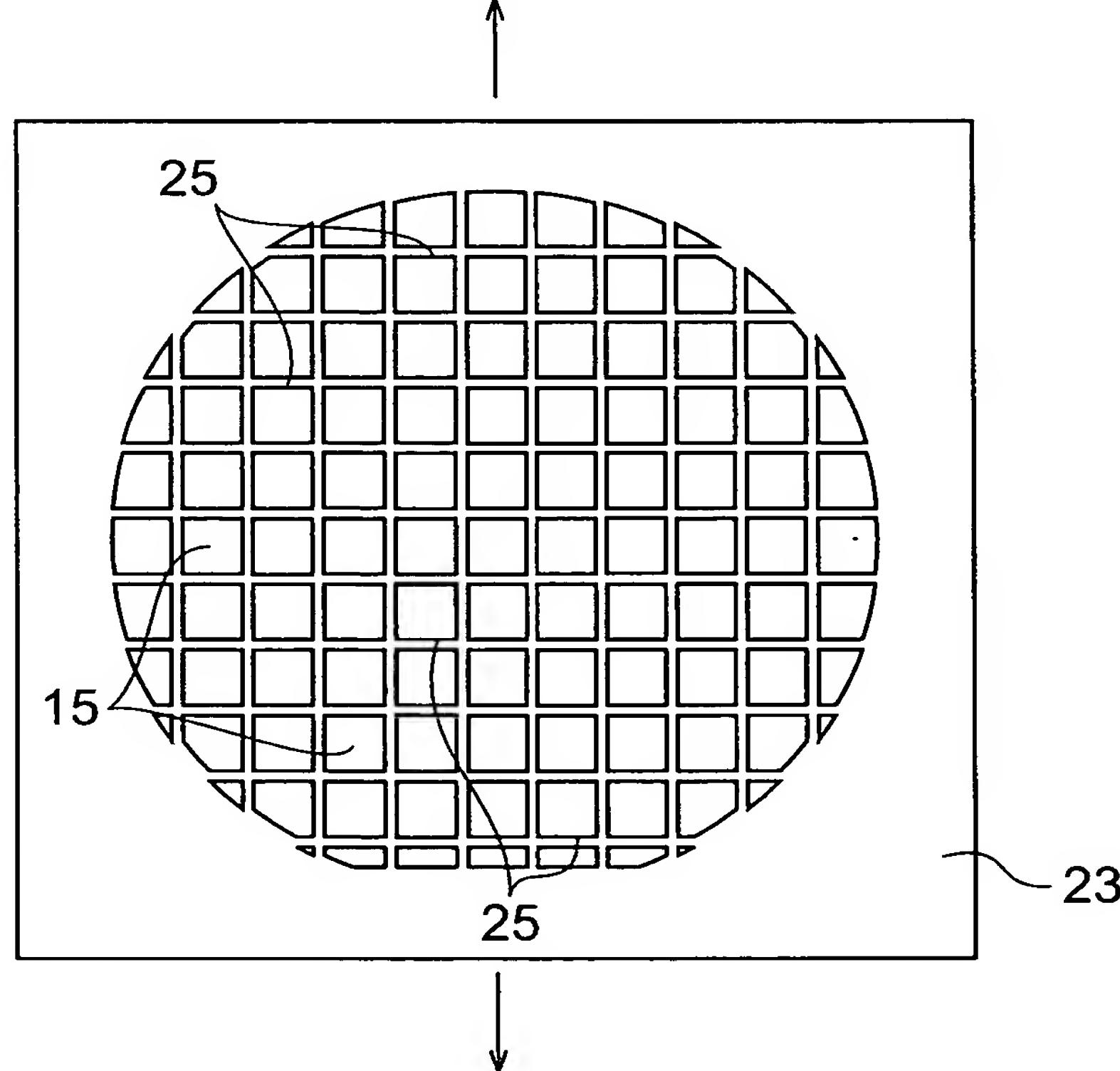


**Fig. 35**

(a)

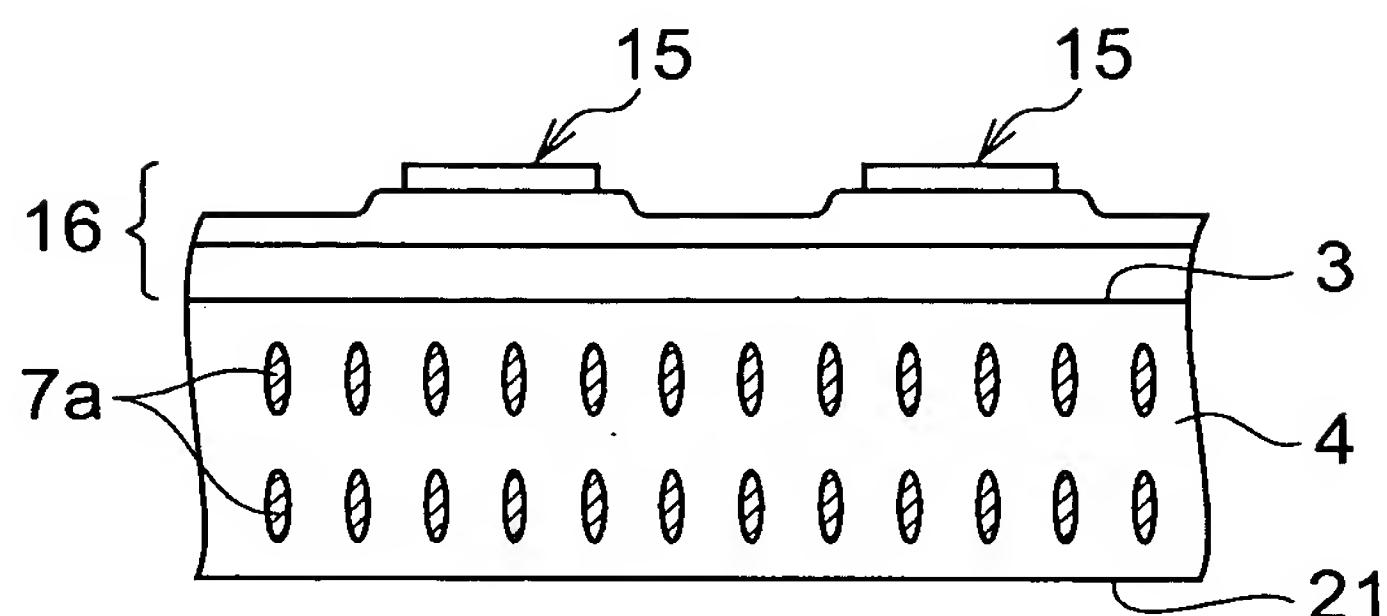


(b)

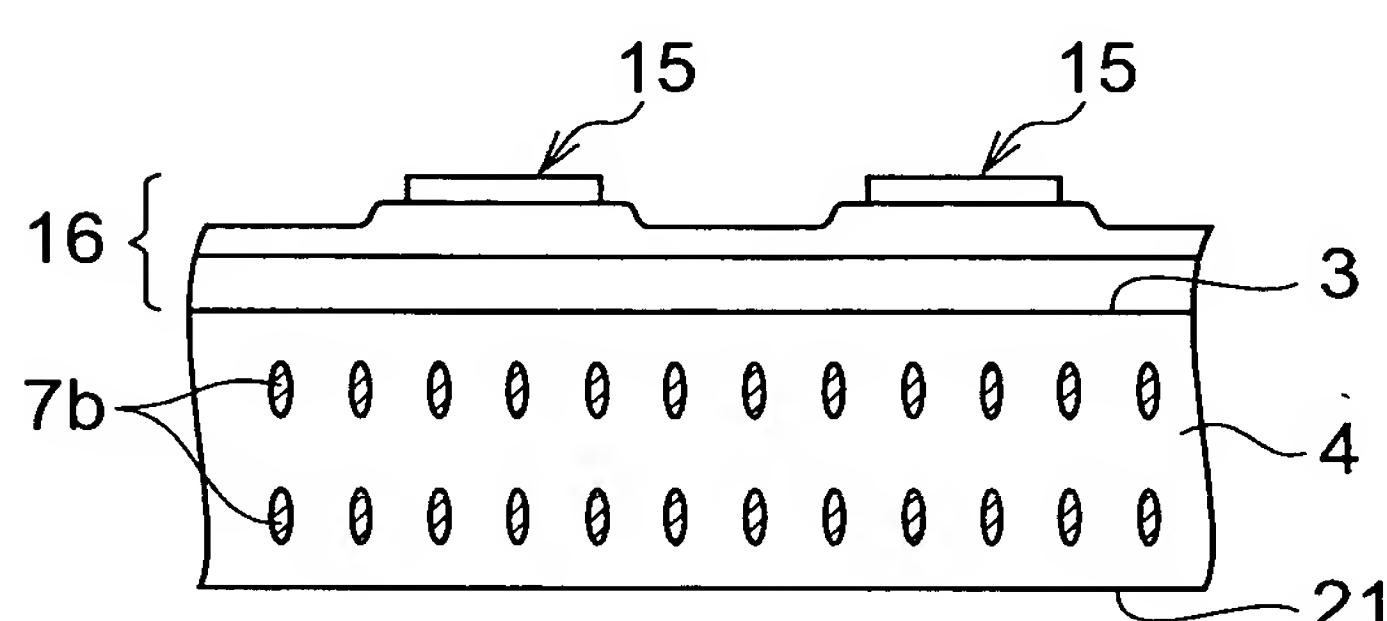


**Fig.36**

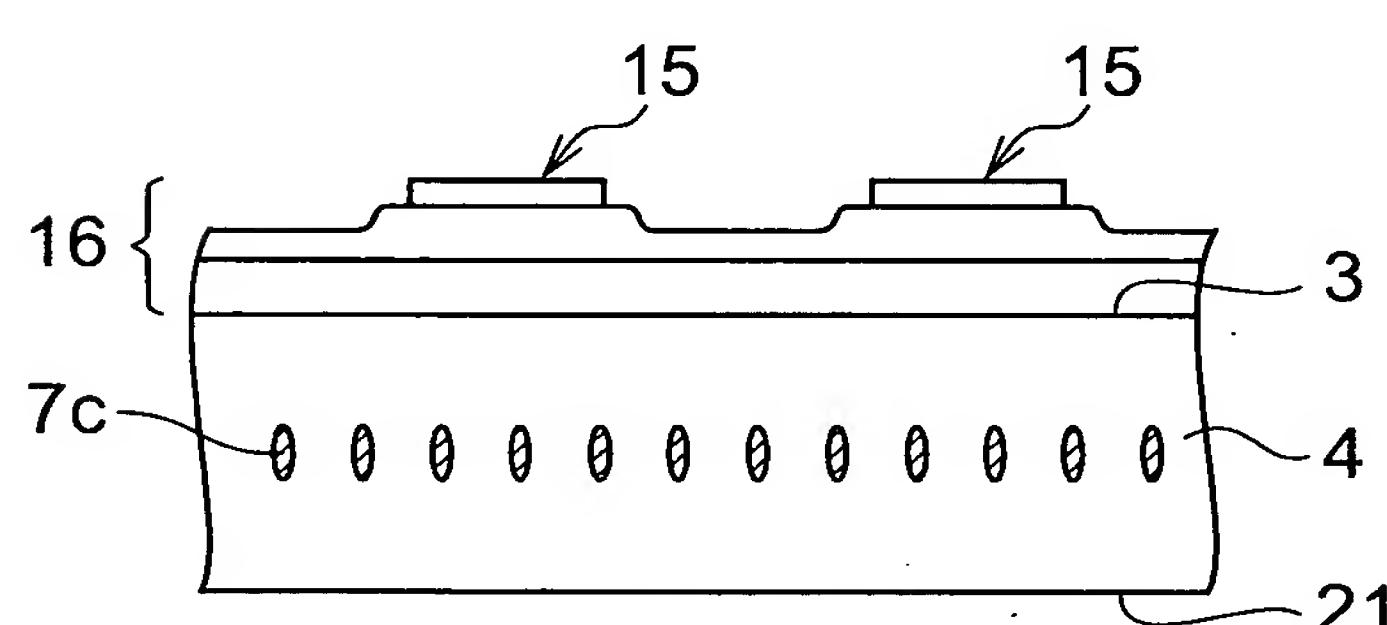
(a)



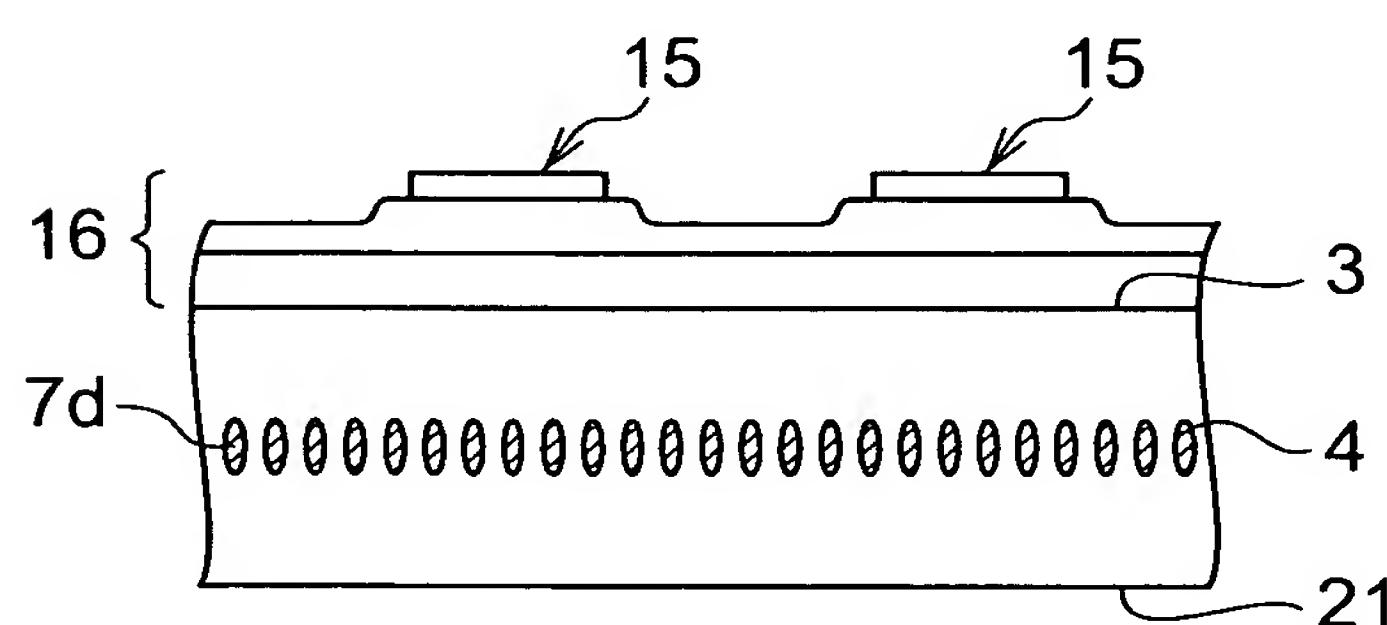
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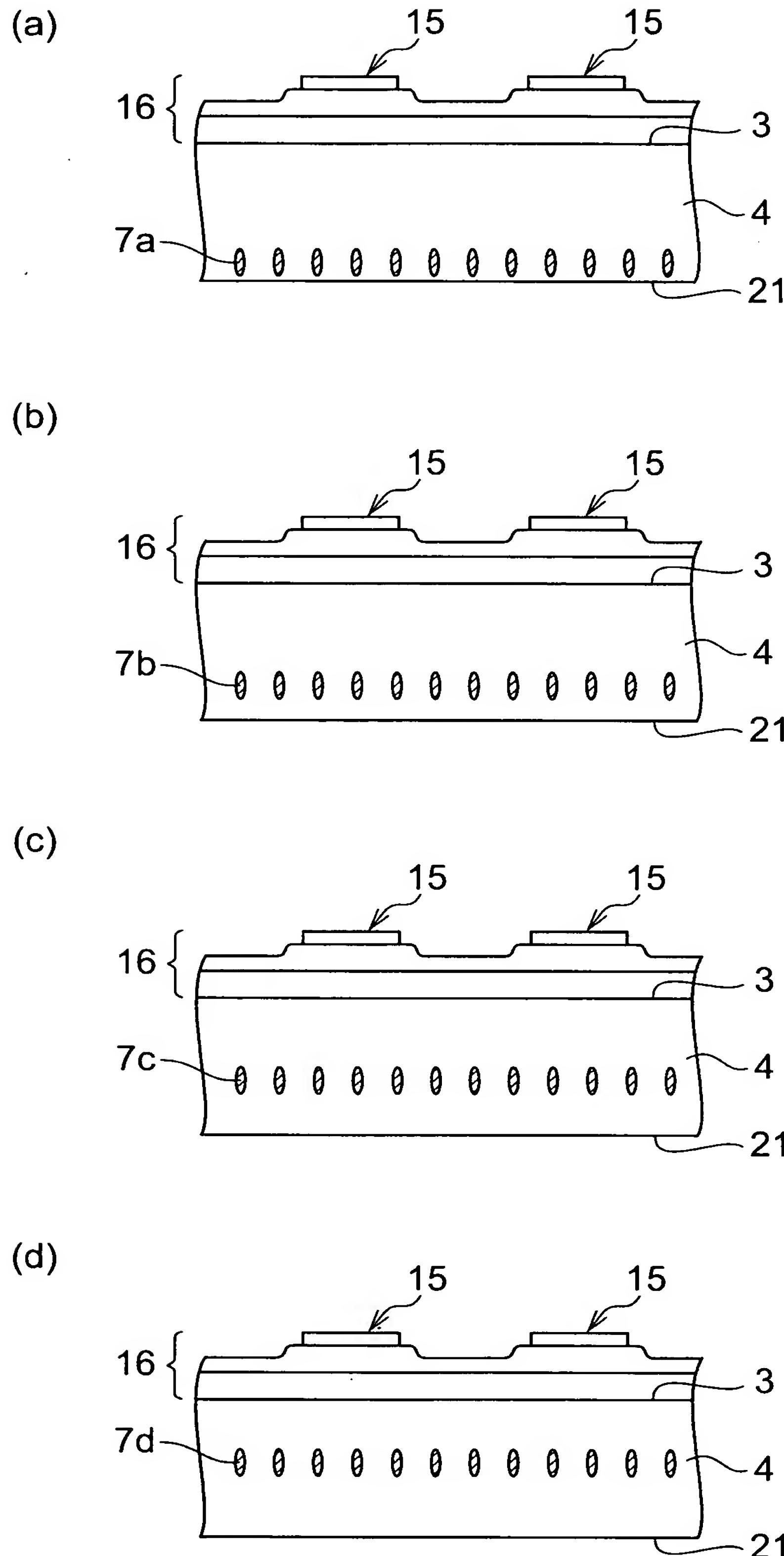


(c)



(d)



**Fig.37**

**Fig. 38**

FORMING CONDITION(1)				FORMING CONDITION(2)			
SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)
HC MODIFIED REGION	39	10	HC MODIFIED REGION	39	10	HC MODIFIED REGION	39
HC MODIFIED REGION	71	10	HC MODIFIED REGION	71	10	HC MODIFIED REGION	71
DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121
DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157
DIVIDED MODIFIED REGION	185	—	TIME DIFFERENCE MODIFIED REGION	185	20	TIME DIFFERENCE MODIFIED REGION	185
TIME DIFFERENCE MODIFIED REGION	—	—	QUALITY MODIFIED REGION	192	20	QUALITY MODIFIED REGION	192
QUALITY MODIFIED REGION	263	15	REMAINING WIDTH: 54 μm	263	15	REMAINING WIDTH: 54 μm	263
REMAINING WIDTH: 62 μm	CUT TIME: 3.70s		CUT TIME: 2.38s		CUT TIME: 2.38s		
FORMING CONDITION(3)				FORMING CONDITION(4)			
SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)
HC MODIFIED REGION	39	10	HC MODIFIED REGION	39	10	HC MODIFIED REGION	39
HC MODIFIED REGION	71	10	HC MODIFIED REGION	71	10	HC MODIFIED REGION	71
DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121
DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157
DIVIDED MODIFIED REGION	185	20	TIME DIFFERENCE MODIFIED REGION	185	20	TIME DIFFERENCE MODIFIED REGION	185
TIME DIFFERENCE MODIFIED REGION	199	20	QUALITY MODIFIED REGION	206	20	QUALITY MODIFIED REGION	206
QUALITY MODIFIED REGION	263	15	REMAINING WIDTH: 35 μm	263	15	REMAINING WIDTH: 35 μm	263
REMAINING WIDTH: 43 μm	CUT TIME: 2.03s		CUT TIME: 2.03s		CUT TIME: 1.90s		

**Fig.39**

FORMING CONDITION(5)			FORMING CONDITION(6)		
SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)
HC MODIFIED REGION	39	10	HC MODIFIED REGION	39	10
HC MODIFIED REGION	71	10	HC MODIFIED REGION	71	10
DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121	20
DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157	20
DIVIDED MODIFIED REGION	185	20	DIVIDED MODIFIED REGION	192	20
TIME DIFFERENCE MODIFIED REGION	214	20	TIME DIFFERENCE MODIFIED REGION	228	20
QUALITY MODIFIED REGION	263	15	QUALITY MODIFIED REGION	263	15
REMAINING WIDTH:23 μm	CUT TIME:1.99s		REMAINING WIDTH:5~10 μm	CUT TIME:1.62s	
FORMING CONDITION(7)			FORMING CONDITION(7)		
SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)	SPECIES OF MODIFIED REGION	LIGHT-CONVERGING POSITION(μm)	ENERGY(μJ)
HC MODIFIED REGION	39	10	HC MODIFIED REGION	39	10
HC MODIFIED REGION	71	10	HC MODIFIED REGION	71	10
DIVIDED MODIFIED REGION	121	20	DIVIDED MODIFIED REGION	121	20
DIVIDED MODIFIED REGION	157	20	DIVIDED MODIFIED REGION	157	20
DIVIDED MODIFIED REGION	185	20	DIVIDED MODIFIED REGION	185	20
DIVIDED MODIFIED REGION	214	20	DIVIDED MODIFIED REGION	214	20
DIVIDED MODIFIED REGION	235	20	DIVIDED MODIFIED REGION	235	20
QUALITY MODIFIED REGION	263	15	QUALITY MODIFIED REGION	263	15
REMAINING WIDTH:0 μm	CUT TIME:0s		REMAINING WIDTH:0 μm	CUT TIME:0s	

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